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**NUCLEAR REGULATORY COMMISSION**

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Comments Regarding the Fort Calhoun  
Station Post-shutdown Decommissioning  
Activities Report (PSDAR)

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UNITED STATES OF AMERICA

NUCLEAR REGULATORY COMMISSION

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PUBLIC MEETING TO DISCUSS AND ACCEPT COMMENTS  
REGARDING THE FORT CALHOUN STATION POST-SHUTDOWN  
DECOMMISSIONING ACTIVITIES REPORT (PSDAR)

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WEDNESDAY

MAY 31, 2017

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The Public Meeting was convened in the  
Lewis and Clark Meeting Rooms of the Doubletree Hotel,  
1616 Dodge Street, Omaha, Nebraska at 6:00 p.m.,  
Cheryl Hausman, Facilitator, presiding.

PRESENT:

- CHERYL HAUSMAN, Facilitator
- FRANCES RAMIREZ, Co-Facilitator
- BRUCE WATSON, Chief, Reactor Decommissioning  
Branch Office, Nuclear Material Safety and  
Safeguards
- DOUG BROADDUS, Chief, Decommissioning Transition  
Branch Office, Nuclear Reactor Regulation
- RAY KELLAR, Chief, Fuel Cycle and Decommissioning  
Branch, Region IV, Division of Nuclear Materials  
Safety

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

(6:07 p.m.)

1  
2  
3 MR. WATSON: Good evening. And I want to  
4 thank you for being here and taking time out of your  
5 busy schedules to attend this meeting on the Fort  
6 Calhoun Post-Shutdown Decommissioning Activities  
7 Report public meeting. This is an NRC meeting, and so  
8 I'm going to turn it over to Cheryl Hausman, our  
9 facilitator. She's going to go over some of the  
10 meeting ground rules and other information pertinent  
11 to this evening's activities.

12 MS. HAUSMAN: Good evening, everybody.  
13 And like Bruce said, thank you very much for coming to  
14 the meeting this evening. My name is Cheryl Hausman,  
15 and I'm going to be one of the facilitators for the  
16 meeting. I would also like to introduce Frances  
17 Ramirez, who will be co-facilitating the meeting and  
18 has stepped outside the room. But she will be right  
19 back. She's right outside. Our role as facilitators  
20 is to help the meeting run smoothly, to ensure that  
21 everybody who wants to speak has a chance to do so,  
22 and to try and keep us on time.

23 With that, I would like the NRC staff to  
24 introduce themselves at this time.

25 MR. WATSON: My name is Bruce Watson. I'm

1 Chief of the Reactor Decommissioning Branch in the  
2 Office of Nuclear Material Safety and Safeguards. My  
3 role in the decommissioning is, once the licensing  
4 activities which transitioned the plant from  
5 operations to decommissioning, the plant will be  
6 transferred to my branch for project management. So  
7 all future licensing activities and other activities  
8 associated with the plant will come under my  
9 supervision. So, with that, I'll give you to Doug  
10 Broaddus.

11 MR. BROADDUS: Good afternoon. My name is  
12 Doug Broaddus. I'm the Branch Chief in the Special  
13 Projects and Process Branch in the Division of  
14 Operating Reactor Licensing and the Office of Nuclear  
15 Reactor Regulation. I'm sorry.

16 MR. WATSON: NRR.

17 MR. BROADDUS: Sorry. It's a running joke  
18 from this morning. I'm sorry.

19 So, as Bruce mentioned, Fort Calhoun is  
20 currently within my branch. We have the project  
21 management responsibility for the licensing of Fort  
22 Calhoun at this point. My office has responsibility  
23 for operating reactors, the licensing of that -- those  
24 activities. And then, once they shut down, as they're  
25 transitioning to a decommissioning and getting ready

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1 to go into their long-term decommissioning activities,  
2 my branch is responsible for doing all the licensing  
3 actions associated with that.

4 MR. KELLAR: Good evening. My name is Ray  
5 Kellar. I work in Region IV and I have several  
6 inspection programs that I'm responsible for in the  
7 Division of Nuclear Material Safety. But, tonight,  
8 we're going to talk about the inspection of  
9 decommissioning reactors and the inspection of  
10 ISFSIes.

11 MR. WATSON: And since we're going to do  
12 our best to answer any questions that come up tonight  
13 collectively by the group here, I'm going to introduce  
14 Shawn Harwell, who's our financial expert, and he's  
15 with the Office of Nuclear Reactor Regulation.

16 MR. BROADDUS: Raise your hand or  
17 something.

18 MR. WATSON: And we have Joe Anderson  
19 here. He's the Branch Chief for Emergency Response  
20 Licensing. And at the end of the row here is Jim Kim.  
21 He's the present Project Manager for Fort Calhoun.  
22 And at the end of this table is Jack Parrott. He is  
23 the Project Manager that will inherit the plant when  
24 it transfers from NR to my branch.

25 So, with that, do you want to go over the

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1 ground rules?

2 MS. HAUSMAN: Yes. This is a Category 3  
3 public meeting to encourage active participation and  
4 information exchange with the NRC and members of the  
5 public to obtain comments on the PSDAR and DCE. The  
6 NRC invites and encourages members of the public to  
7 present oral and written comments on the PSDAR and DCE  
8 for Fort Calhoun.

9 Before we begin, I'd like to go over a few  
10 ground rules for the meeting this evening. Please be  
11 respectful of others during the meeting and we'll make  
12 sure that all the participants who have a question or  
13 wish to make a comment have time to do so. Also,  
14 please turn off all electronic devices or put them in  
15 a silent mode at this time; and if you need to take a  
16 call, please step outside the meeting room to do that.

17 I'd like to let everybody know that this  
18 meeting is being transcribed, and I ask that you try  
19 to keep any background noise to a minimum so that the  
20 transcriber can produce an accurate recording of the  
21 meeting.

22 There are security officers present for  
23 everyone's safety, and that is standard practice. The  
24 restrooms are located down the hall to the left and  
25 the exits are just to the left of the room outside in

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1 the hall. If we have to evacuate for any reason,  
2 please follow the instructions from the security  
3 officers.

4 The agenda for the meeting this evening  
5 includes a presentation by NRC staff to present an  
6 overview of NRC's role and mission, a summary of the  
7 PSDAR and DCE for Fort Calhoun, and upcoming  
8 milestones. Following the presentations, we will have  
9 a public comment session and we'll take time for  
10 meeting attendees to ask questions or make comments.  
11 Please remember to keep your questions and comments  
12 relevant to the topic of this evening's meeting.  
13 Hopefully, everybody has signed in, and there are  
14 copies of the presentation available on the back table  
15 on your way out if you would like a copy.

16 Finally, the NRC is always looking to  
17 improve our meetings and your feedback is important.  
18 There are some postage-paid public meeting feedback  
19 forms available, and you can fill one out today or  
20 give it to any NRC staff member.

21 Any questions about the ground rules or  
22 the logistics of the meeting tonight?

23 (No response.)

24 Okay. With that, I'm going to turn it  
25 over to Bruce for the slide presentation.

1 MR. WATSON: All right, we'll go to our  
2 first slide. Just as a reminder, this is a Category  
3 3 NRC public meeting. Your comments are why we're  
4 here. And so, we'd like to hear from you. Secondly,  
5 Linda Rohman over here drove up here from Lincoln so  
6 she could just transcribe the meeting, so we ask that  
7 you do give your name when you make a comment or ask  
8 a question so she clearly gets it recorded. Again,  
9 there are meeting feedback forms in the back, and so  
10 your feedback's very important to us to improving  
11 these meetings.

12 Here's the agenda we're going to follow.  
13 I'm going to talk a little about the decommissioning  
14 process and the PSDAR. And then, Doug will talk about  
15 the review process, and Ray will talk about the  
16 inspection program.

17 So, let's go to the next slide. The  
18 present decommissioning regulations went into effect  
19 in 1997. The point I'm going to make here is that we  
20 have a lot of experience with decommissioning. Over  
21 this time period, we've decommissioned the sites of  
22 the -- over 70 sites have been decommissioned and the  
23 license terminated. We have terminated over 10 power  
24 reactors for unrestricted use, and all these sites  
25 together, collectively, have been -- had their

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1 licenses terminated for unrestricted use. Well, what  
2 does that mean? It means that the owner of the  
3 property can use the property for whatever it chooses  
4 to do in the future with no restrictions from the NRC.

5 Next slide. The regulations that are  
6 important to the decommissioning are listed above on  
7 this slide. 10 CFR 20 sets the radiological criteria  
8 for the release of the facility so we can terminate  
9 the license. In reality, almost all the facilities  
10 that have been -- met that criteria have done it  
11 within a small fraction of the actual limits. So, the  
12 cleanup is almost nearly, in almost all cases, has  
13 been near natural background.

14 Part 50 is the federal regulations that  
15 not only cover the operating licenses for power  
16 reactors, but also contain the decommissioning  
17 requirements in Part 50.82. So, you can find that,  
18 also, in the regulations.

19 An important part of the decommissioning,  
20 especially with this site, is Part 72, which governs  
21 the ISFSI, as we call it, or dry fuel storage facility  
22 which will remain at the site after the reactor is  
23 decommissioned.

24 Next slide, please. Some key milestones  
25 for the decommissioning here at Fort Calhoun: Ceased

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1 operations October 24th of last year. November 13th,  
2 they certified that the plant was permanently ceased  
3 operations and defueled. What this means from the NRC  
4 perspective is that they are no longer authorized to  
5 operate the plant. So, at this point, they cannot put  
6 the fuel back into the reactor and operate it. So, in  
7 order to operate, they would have to apply for a new  
8 license. On March 30th, the PSDAR was submitted to  
9 the NRC and it was made publicly available in ADAMS  
10 soon after that. ADAMS is our agency-wide document  
11 system, which is documents that can be obtained from  
12 (sic) the public by going to our public website and  
13 viewing -- and going to the ADAMS menu. On April  
14 27th, the NRC issued the public notice for this  
15 meeting.

16 And go on to the next slide. Basically,  
17 our regulations allow for -- I should say, our  
18 guidance allows for -- our regulations actually allow  
19 for two options. One is DECON in which the plant is  
20 promptly dismantled after it's shut down. And it also  
21 allows for SAFSTOR, where the plant is also placed in  
22 a safe condition and then allowed to stay in, say, a  
23 mothballed state in safe storage until the licensee  
24 decides to do the decommissioning. Radiological  
25 decommissioning is what the NRC regulates, and it is

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1 required to be completed in 60 years. So, this allows  
2 the operator a lot -- or the licensee a lot of  
3 flexibility in their schedule. There are certain  
4 benefits to the 60-year requirement, because, over the  
5 first 50 years, the radiological dose rates --  
6 radiation dose rates in the plant will be about one  
7 percent of what they were when the plant was shut  
8 down. So, there's a safety aspect to protecting  
9 workers, reducing their exposures, and also reduces  
10 volumes of radioactive waste.

11 Let's go to the next slide. In the PSDAR,  
12 it's basically a report to us, to the NRC, which  
13 allows us to have this discussion with the public; and  
14 it also allows us to outline the resources we need to  
15 decommission -- to support the decommissioning of the  
16 plant. Basically, it's a description and schedule for  
17 the planned decommissioning activities. It contains  
18 a site-specific decommissioning cost estimate,  
19 including the costs of managing irradiated fuel. It  
20 also provides a discussion that provides for the means  
21 for concluding that the environmental impacts  
22 associated with the decommissioning activities will be  
23 maintained within the current environmental assessment  
24 or environmental impact statement. So, we're getting  
25 assured that the environment will also be protected

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1 during the decommissioning activities.

2 On the next slide, please. NRC  
3 regulations require that we hold a public meeting in  
4 the vicinity of the facility, so that's why we're here  
5 tonight. We're here to solicit your comments and  
6 hopefully answer any questions that you may have that  
7 we can answer. They also -- the regulations require  
8 that the public -- that the PSDAR be made publicly  
9 available, and here's where you can find it in our  
10 ADAMS system. And one key thing is that we do not  
11 approve the PSDAR. It is not a licensing action. It  
12 is merely a report which we use to inform the public  
13 of the decommissioning -- planned decommissioning  
14 activities and to plan the NRC resources to support  
15 those activities. And, lastly, the licensee may begin  
16 major decommissionings 90 days after the NRC receives  
17 the PSDAR. So, we don't slow down the activities at  
18 all if they chose to do them.

19 Next slide. Couple comments on the  
20 contents of the Fort Calhoun PSDAR. In 2016, the  
21 Decommissioning Fund had \$286 million, and the Spent  
22 Fuel Management Fund had about \$96 million. They plan  
23 to go into SAFSTOR and complete the decommissioning by  
24 2065. The spent fuel will be moved to dry storage by  
25 2022, and there's about \$405 million required to

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1 manage that spend fuel. The estimate for the  
2 radiological decommissioning is \$932 million.

3 And there's an estimated \$45 million to  
4 restore the site. The NRC does not regulate site  
5 restoration, so that's a separate fund. Once we  
6 terminate the license, which means whatever situation  
7 the site is in when we terminate the license, the  
8 licensee has demonstrated to us that they meet the  
9 radiological license criteria for unrestricted  
10 release, we no longer have a say in the actual goings-  
11 on at the site. It's up to the owner and the State  
12 and their stakeholders to determine what's done with  
13 the site. And, of course, the decommissionings are to  
14 remain within the previously approved environmental  
15 impact statements for the site.

16 So, that's the conclusion in the PSDAR.  
17 With that, I'll turn it over to Doug Broaddus to talk  
18 about the review process.

19 MR. BROADDUS: Thank you, Bruce.

20 Go ahead and go on for the next slide.  
21 All right. As Bruce indicated, the PSDAR, the Post-  
22 Shutdown Decommissioning Activities Report, must meet  
23 some specific requirements that are called out in our  
24 regulations. And I have the citation up there.  
25 Specifically, it must include a description and

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1 schedule for the planned decommissioning activities;  
2 a site-specific decommissioning cost estimate,  
3 including the cost for managing spent fuel; and then  
4 a discussion of the environmental impacts associated  
5 with the decommissioning activities and the reasons  
6 why the licensee concludes that those impacts will be  
7 bounded by previously issued environmental impact  
8 statements. And I'll talk a little bit more about  
9 each of those as we go through my presentation.

10 And as Bruce also indicated, the NRC has  
11 previously developed some regulatory guidance, in  
12 particular Regulatory Guide 1.185, which was written  
13 to provide a standard format and content that we would  
14 expect to be in a PSDAR Report. But we also use that  
15 as one of our key review tools to ensure -- or to  
16 determine whether or not the information in the report  
17 is complete and has all the required information in  
18 it. That Reg Guide also provides links and  
19 information on other guidance that's also available  
20 and that's been developed by the NRC, including a new  
21 reg, 1713, which describes how the NRC will review the  
22 site-specific decommissioning cost estimates, the  
23 other key document that comes with this.

24 When we receive the report, the project  
25 manager, which is Jim Kim -- he was pointed out

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1 earlier -- he establishes a team of reviewers that  
2 have the expertise in those specific areas needed to  
3 review the report, and specifically the areas we  
4 talked about before, specifically, financial analysts,  
5 environmental specialists, and health physicists. If  
6 any information in the report is missing, or if the  
7 reviewers need any additional information to better  
8 understand what -- the licensee's plan, we may issue  
9 what's called a request for additional information to  
10 the licensee, basically, to provide that additional  
11 information to help us complete our review.

12 Next slide. So, I wanted to talk a bit  
13 more about our evaluation criteria. So, as Bruce  
14 indicated, we don't approve the PSDAR, but our review  
15 is focused more so on ensuring that it contains all  
16 the information that's required. We also look at the  
17 licensee's decommissioning approach, including which  
18 one of the options that they're planning to go for.  
19 In this case, SAFSTOR is what they're currently  
20 planning to -- the approach that they're using.

21 We then assess whether completing  
22 decommissioning of the facility is feasible given the  
23 technologies and the approach that the licensee plans  
24 to use. The next key area is whether or not the plan  
25 that they've laid out can be completed within the 60-

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1 year time frame that's allowed by the regulations. We  
2 also assess whether the licensee has adequately  
3 assessed all the costs of implementing the plan for  
4 decommissioning. And I'll talk about each of these  
5 areas in more detail in the next couple of slides. We  
6 also assess whether the licensee's plan adequately  
7 provides for the protection of the public health and  
8 safety and the environment.

9           And although we don't approve the PSDAR,  
10 there are a number of factors that could cause us to  
11 find that the report is actually -- is deficient or  
12 doesn't contain all the information that's required.  
13 I'll give you some examples of where that might occur.  
14 For example, if the licensee's plan for  
15 decommissioning could not be completed, as described.  
16 If the plan called for immediate decontamination and  
17 dismantlement of this facility, but there wasn't a  
18 disposal facility for them to send their waste to it.  
19 If they -- the plan could not be completed within the  
20 60-year time frame, that would not meet the  
21 requirements, but we would have to have -- they would  
22 have to provide information that indicates why  
23 complete -- it would be necessary to complete it in a  
24 longer time period than that to protect public health  
25 and safety. And if it could not be completed within

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1 the available funds in their Decommissioning Trust or  
2 other funding arrangements. So, these are some  
3 examples of where we might find it deficient and where  
4 we might have some additional questions if that  
5 occurred. We're currently, right now, in the process  
6 of the review, so these are just examples. I'm not  
7 saying specifically that's the case here.

8 All right, the next slide. So, along with  
9 the PSDAR, the licensee is required to submit a Site-  
10 specific Decommissioning Cost Estimate. This is an  
11 estimate of the entire cost from start to finish for  
12 the entire 60-year period or shorter time frame if  
13 they choose to do it shorter than that. This is  
14 typically an area of significant interest that we've  
15 seen from the local community.

16 So, what we look for from this standpoint  
17 is that have they considered all the costs that are  
18 necessary to implement the plan; are those costs  
19 appropriate given the types of technologies and the  
20 approach that they are using; and is there a  
21 reasonable assurance that they're going to be able to  
22 complete the decommissioning activities with the money  
23 that they have available, taking into account the  
24 growth of the funds throughout the years while they're  
25 doing the decommissioning activities. And if it's

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1 not, do they have additional funding sources to make  
2 up any shortfall. So, we also look at the techniques  
3 that they're going to be using and whether those  
4 estimates are realistic based upon the activities that  
5 they would be conducting, and have they identified all  
6 of the activities that are necessary in order to  
7 complete the approach that they've selected.

8 We also want to ensure that the licensee  
9 understands that -- and has accounted for potential  
10 changes that may occur over the time period. So, if  
11 they're in SAFSTOR for 50 years, do they have a  
12 mechanism to make adjustments during that time period  
13 if they, for example, they start to -- the costs go up  
14 and they're expending more costs -- more money than  
15 what they originally planned. Do they have a  
16 mechanism for adjusting their approach to ensure that  
17 they have sufficient funding to complete the  
18 activities?

19 The licensee is required to submit to us  
20 annually a report on what they have spent and how much  
21 money they have left. And so, we look at that on a  
22 periodic basis, every year, to ensure that they're  
23 staying on track as well. So, that's a -- that's not  
24 part of the PSDAR, but that's our normal, ongoing  
25 routine review process. And if they make any

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1 significant changes during that time period, they're  
2 required to submit an updated PSDAR to us, and we'll  
3 look at that as well at that time.

4 Next slide. As I mentioned earlier, part  
5 of our review is to determine adequacy of what the --  
6 how the licensee addressed the environmental impacts  
7 associated with decommissioning, and, in particular,  
8 how those impacts relate to previous environmental  
9 impact statements that have been performed. There are  
10 two different types of environmental impacts that  
11 would generally be performed at a reactor plant and  
12 that would have to be considered. One would be a  
13 site-specific environmental impact statement that was  
14 done at the early -- at the beginning when the  
15 licensee was -- the initial licensing of the plant.  
16 So, we would look at that environmental impact  
17 statement and see if the -- any of the activities that  
18 would be performed during decommissioning would be  
19 bounded by that original environmental impact  
20 analysis.

21 The second is a generic decommissioning  
22 environmental impact statement that was developed a  
23 number of years back by the NRC to assess the typical  
24 types of impacts that occur at a plant during  
25 decommissioning. And so, to the extent that those --

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1 the generic environmental impacts would be typical to  
2 Fort Calhoun, they could look at that and see whether  
3 or not that was also bounded by the actual impacts or  
4 bounded by that generic assessment.

5 As I mentioned before, we would continue  
6 to -- we would also continue to assess the  
7 environmental impacts throughout the decommissioning  
8 process and through our inspection program. And if  
9 there are any significant changes that occur, we would  
10 expect that they would be addressed by the licensee as  
11 well.

12 All right, next slide. And, finally,  
13 we're here tonight, as Bruce mentioned, to get  
14 comments from you on the PSDAR. Our review will  
15 consider those comments. And so, we would like to  
16 hear from you. We'll look at those comments and  
17 determine whether they raise any issues that would  
18 require or should warrant an adjustment to the plan  
19 and need -- and whether there's additional information  
20 we might want to see, to see how that issue might be  
21 addressed. In particular, if you bring up something  
22 that we're not aware of or something, that would be  
23 helpful from that standpoint to understand that.

24 So, we'll also provide the comments to the  
25 licensee so that they can consider it during their

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1 decommissioning process. And then, once we complete  
2 the review, we'll provide our assessment of the  
3 review. Once we've determined that there's no  
4 additional information needed, we'll send a letter to  
5 the licensee that says we've completed our review, and  
6 we'll provide a summary of the comments that we've  
7 received to the licensee and make that publicly  
8 available so everybody can see that as well.

9           And as Bruce mentioned before, one of the  
10 key things is the licensee can't begin major  
11 decommissioning activities until 90 days after we've  
12 received the PSDAR. So, our intent is to try to  
13 complete our review within that 90-day period so we  
14 can identify any significant issues, if there are any,  
15 during that time period.

16           All right, next slide. And, finally, as  
17 I mentioned before, we are looking for comments from  
18 you. If you have any comments after this meeting,  
19 there are a couple of other ways that you can provide  
20 those comments. As we've indicated, this is going to  
21 be transcribed. So, if you have a -- any comments  
22 that are made tonight, we'll assess those. But we  
23 also have comment forms here. You can also go online  
24 at regulations.gov. And then there's a docket number  
25 up there that you have to do a search for for that.

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1 You can also send in comments by mail. All comments  
2 are due by July 7th, 2017. And so, we'll make sure  
3 that this information is also available on our public  
4 website for this public meeting to ensure that you've  
5 got that information if you're not able to copy it  
6 down.

7 So, with that, I'm going to turn it over  
8 to Ray, and let him talk about inspection activities.

9 MR. KELLAR: As I mentioned earlier, I'm  
10 going to talk about the inspection program from a  
11 regional perspective. Tonight, we're going to talk  
12 about decommissioning inspections and, also, ISFSI  
13 inspections.

14 So, basically, Doug's group and Bruce's  
15 group look at the license, license amendments. And I  
16 work closely with them and, also, with the Division of  
17 Spent Fuel Management to make sure that we get all the  
18 license changes made, because, when the inspectors go  
19 out, what they do is they make sure that the licensee  
20 is meeting all the requirements in their license and  
21 in the regulations.

22 (Slide presentation interrupted.)

23 MR. BROADDUS: Having some technical  
24 difficulties.

25 MR. KELLAR: Yeah. Hang on just one

1 minute. Here we go. Go to the next slide when you  
2 get it ready. Go to slide view. There we go.

3 So, this is an example of several nuclear  
4 plants that have successfully transitioned from an  
5 operating plant into a fully decommissioned plant. As  
6 Bruce mentioned earlier, there are quite a few that  
7 have done that. In fact, in Region IV, there's going  
8 to be one or two more in the next few years that are  
9 going to be fully decommissioned.

10 Next slide, please. So, how we ensure  
11 safety. The inspection program for decommissioning  
12 reactors is based on the licensee meeting the NRC  
13 regulations; the licensing basis documents, which  
14 would be tech specs; and guidance documents that are  
15 committed to, such as new regs. The program office,  
16 Bruce's group, will perform licensing reviews as well  
17 as safety evaluations of proposed license changes; and  
18 the regional inspectors will be ensuring that the  
19 licensee is following the regulations, license  
20 requirements, and documenting the inspections in  
21 inspections reports. In a moment, I'll get -- I'll  
22 tell you where you can find the inspection reports at.  
23 Enforcement actions will be taken as necessary when  
24 they're found during the inspections.

25 Please go to the next one. So, the

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1 inspection program will be looking at the safety of  
2 the spent fuel located in the spent fuel pool and  
3 observing the loading operations of spent fuel into  
4 the canisters which go in the ISFSI when it comes time  
5 for that in the near future, which is several years  
6 out. Decommissioning activities will be inspected by  
7 observing a variety of licensee activities and  
8 reviewing the licensee programs. As the amount and  
9 complexity of decommissioning work increases, the  
10 number of inspections will also increase. In the case  
11 of Fort Calhoun, after the fuel gets loaded, there  
12 will probably be somewhat of a falling-off of  
13 inspections because of the SAFSTOR status.

14 To ensure the radiation levels are within  
15 reliable limits set by the regulations, the inspectors  
16 will be performing independent radiological  
17 measurements as we get into the closing portion of the  
18 decommissioning cycle. Additionally, Manual Chapter  
19 2561, which is a Decommissioning Power Reactor  
20 Inspection Program, provides guidance on what type of  
21 inspections to perform and what frequency. So, we  
22 take those into account when we perform our  
23 inspections as well.

24 Next slide. The NRC inspection program is  
25 responsible for verifying that the licensee is

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1 conducting the regulated activity safely, as allowed  
2 by their license and the regulations. The inspectors  
3 verify this by observing licensee activities,  
4 reviewing procedures, along with interviewing the  
5 licensee employees to make sure that the licensee is  
6 following the requirements. The inspection program  
7 ensures that safety problems and violations are  
8 promptly identified, placed in the licensee's  
9 corrective action program, promptly corrected, and  
10 reviewed. The inspectors review the licensee's  
11 programs and documentation as well as independently  
12 observe licensee performance. By reviewing previous  
13 inspection reports, the inspectors can identify  
14 degraded licensee performance trends before they  
15 become larger problems.

16 Next slide, please. The region develops  
17 a master inspection plan in advance of each year's  
18 planned inspections, taking into account what the  
19 licensee plans on doing during that year and taking  
20 into account what the Manual Chapter I mentioned  
21 earlier asks for us to do relative to inspection  
22 procedures. So, we look at the scope and timing of  
23 these inspections with the program office. And the  
24 inspection efforts include reviewing licensee  
25 correspondence, previous inspections, performing the

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1 inspections, identifying any violations or findings  
2 that occur, and communicating these to the licensee  
3 during an exit meeting. Violations are handled in  
4 accordance with the NRC inspection -- NRC enforcement  
5 policy that's located at the link at the bottom of  
6 this slide.

7           Next slide. After the inspection is  
8 completed, the inspector performs a debrief with  
9 licensee management, typically the next week after the  
10 inspection has been performed. Licensee management,  
11 which is the SES-ers, the senior staff, and we  
12 identify violations that may have occurred and help to  
13 situate these violations and determine what the  
14 enforcement actions should be. The inspection report  
15 is issued within 30 to 45 days, typically, after the  
16 inspection has completed. Portions of the inspection  
17 reports that do contain security-related information  
18 are posted in the public section of ADAMS, the NRC  
19 data-management system. The Fort Calhoun reports can  
20 be searched and located by using the docket number,  
21 which is 50-285 (sic), or the Part 72 ISFSI docket,  
22 which is 7254. So, you can actually put that in the  
23 ADAMS search, and it'll pull up documents under that  
24 docket number, and then you can find doc- --

25           Okay, please put the next -- go back one.

1 Go forward one more. Okay. Yeah, that's the right  
2 one.

3 So, if you go and look -- search under  
4 these docket numbers, you'll be able to find the  
5 inspection reports that have been issued.

6 And, with that, that concludes my  
7 presentation.

8 MR. WATSON: While Frances is getting  
9 ready, I think the key message in the Section program  
10 is that we do not go away after the plant is shut down  
11 and goes into decommissioning. We are there until the  
12 very end of the decommissioning and the license is  
13 terminated. So, with that, Frances?

14 MS. RAMIREZ: Thank you, Bruce, Doug, and  
15 Ray for the presentation.

16 We will now move to the public comment  
17 period of this meeting. This part of the meeting is  
18 where you have an opportunity to ask questions and  
19 provide comments regarding the presentations here  
20 today. There are a number of things we can all do to  
21 make sure this part runs smoothly. First, as you  
22 heard already, we are transcribing the meeting, so  
23 please keep any sidebar conversations or background  
24 noise to a minimum so that the transcript is accurate.

25 Second, we will first take comments from

1 representatives of elected officials; and then, we'll  
2 call on people who filled out the yellow public  
3 comment card; and, lastly, we'll open the floor to  
4 anybody else who wants to make a comment or make a  
5 statement.

6 For those of you making comments, please  
7 make sure you identify yourself and any organization  
8 or group you represent. And please be concise so that  
9 we should be able to fit everybody in and conclude the  
10 meeting in a timely manner.

11 So, if you wish to speak, please raise  
12 your hand, and we'll ask you to step over to the  
13 center aisle where I'll be holding a microphone to  
14 allow you to speak. And then, Cheryl will be up here  
15 calling on people once it's the time to do that.

16 Is there anybody with a yellow card that  
17 hasn't provided it to us yet?

18 (No response.)

19 No? All right. So, I'll just move over  
20 here. We'll first call any representatives of elected  
21 officials?

22 MS. MCGUIRE: Hi. My name is Anne  
23 McGuire, and I'm on the Board of Directors at OPPD and  
24 I'm also the Nuclear Chair. I wonder if you could  
25 just comment on, if you've had any inspections now,

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1 what -- how you feel the performance of the OPPD  
2 management has been in this early stages of the  
3 decommissioning.

4 MR. KELLAR: Thank you for that question.  
5 We have had a couple of inspections so far, and things  
6 have been well. There have been no -- I can't  
7 remember any violations identified to this point. So,  
8 the licensee has been performing as expected.

9 MS. MCGUIRE: Okay. Thank you very much.

10 MR. KELLAR: Thank you.

11 MS. HAUSMAN: Are there any other  
12 representatives of elected officials who have a  
13 question or would like to make a comment?

14 (No response.)

15 All right. I'm going to go to the yellow  
16 comment cards first. Mr. Wally Taylor.

17 MR. TAYLOR: Thank you. First of all, I'd  
18 like to know how much spent fuel is actually at the  
19 site, either in the pools or in dry storage, and what  
20 kind of dry storage is being used?

21 MR. WATSON: Do you want to provide the  
22 numbers of the fuel bundles?

23 MR. FERM: Do I need a microphone? My  
24 name is Mike Ferm. I'm the Director of Engineering at  
25 the Fort Calhoun Station. So, there are 320 fuel

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1 bundles on the ISFSI in a Transnuclear, NUHOMS  
2 horizontal storage unit; and 944 irradiated bundles in  
3 the Spent Fuel Pool itself, which, as presented here,  
4 we expect to transition to the ISFSI over the next  
5 five years.

6 MR. TAYLOR: And how many tons would that  
7 be of -- tons of uranium it is?

8 MR. FERM: I don't know.

9 THE REPORTER: I can't hear that.

10 MR. WATSON: What was the question again?

11 MR. FERM: He asked how many tons of  
12 uranium.

13 MR. WATSON: Let him speak into the  
14 microphone.

15 The question -- the follow-up question was  
16 how many tons of uranium does that equate to, and the  
17 answer is we don't know.

18 MR. TAYLOR: If the waste is going to be  
19 stored on-site, which I encourage you to do and not  
20 ship it somewhere else, where will it be stored on-  
21 site? Will it be far enough back from the river that  
22 it will be safely stored?

23 MR. WATSON: The present dry storage  
24 facility is, I guess, above the flood level, designed  
25 flood level. The plans are -- I think part of your

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1 first question was what's the plans for the other  
2 fuel. Your plans are, from what I understand, to  
3 competitively bid and come up with a technically  
4 qualified vendor to remove the -- move the remainder  
5 of the fuel to the existing pad that's there that  
6 already houses the other spent fuel that's in dry  
7 storage. That's supposed to be started in 2020 and be  
8 completed, probably, by 2022. And as far as I know,  
9 there are no plans to ship any fuel, at this point,  
10 off the site, nor any new fuel from other places to  
11 the site. That fuel is owned by the Department of  
12 Energy, and they're responsible for the ultimate  
13 disposal of that fuel.

14 MR. TAYLOR: I heard the gentleman talk  
15 about these containers being NUHOMS containers. It's  
16 my understanding that those containers cannot be  
17 monitored, inspected, or repaired. And they're very  
18 thin-walled canisters, half-inch thick. What  
19 protection is there beyond the canisters themselves?

20 MR. KELLAR: So, with over 20 years of  
21 storage of spent fuel in the United States, there have  
22 been no issues. But I know the industry as a whole,  
23 including the Nuclear Energy Institute and several  
24 other industry representatives, have been looking into  
25 ways that they can actively look at those canisters

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1 and monitor those canisters to see if they have any  
2 flaws. Now, they have gone out on several canisters  
3 that have been going in for a license extension, and  
4 they have, thus far, found no negative indications on  
5 any of the canisters that they looked at. You have a  
6 good question, but, so far, there hasn't been any  
7 indications of any flaws, and the industry is looking  
8 to try to come up with ways they can better inspect  
9 them.

10 MR. WATSON: Let me answer it slightly  
11 differently. Within the NRC, we have a group that's  
12 dedicated to coming up with additional new ways in  
13 monitoring of the existing casks to ensure they remain  
14 safe. And so, there's a dedicated group at the NRC in  
15 our Spent Fuel Management organization which are  
16 working with industry and the Electric Power Institute  
17 -- Research Institute to come up with additional ways  
18 to monitor those casks and ensure they remain safe.

19 MR. TAYLOR: Twenty years would be a very  
20 short time period in comparison to how long those  
21 containers might be there, correct?

22 MR. WATSON: We don't know when the  
23 Department of Energy's actually going to have a  
24 disposal site or collect them. Presently, there are  
25 -- or there were two applications to come up with an

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1 interim storage area, one in New Mexico and, I think,  
2 the one in Texas has been put in abeyance. But the  
3 actual design of the facilities is significantly  
4 longer than 20 years. I believe the actual design life  
5 is out about a hundred years. But we do require  
6 relicensing, licensing renewal, every 20 years so we  
7 can put additional requirements on the licensees to  
8 monitor the safety of those casks and the containers.

9 MR. TAYLOR: Regarding the decommissioning  
10 costs and the fund, I looked at the plan that OPPD  
11 submitted and Table 1 and Table 2 -- well, Table 2.  
12 And if I added up the license termination costs, the  
13 spent fuel management costs, and the site restoration  
14 costs, it totaled \$1,383,373,000. But earlier in the  
15 report, it said that the License Termination Trust  
16 Fund was \$285,838,000 and the Spent Fuel and Site  
17 Restoration Fund was \$96,290,000, which adds up to  
18 \$382,128,000, which is about \$1 billion short of the  
19 costs. So, where does the other \$1 billion come from?

20 MR. WATSON: Shawn, you want to answer  
21 that? Here, use this microphone.

22 MR. HARWELL: When you look at the costs  
23 that you described and then you look at the Trust Fund  
24 amount, that is another facet of the SAFSTOR period.  
25 So, you're going to have fund growth over that period

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1 of 50 years. So, you will have a cash flow, and they  
2 provide a cash-flow analysis. You can see the money  
3 growing with the expenditures coming in and out. And  
4 there are also additional collections that will go on  
5 through a significant part of that SAFSTOR period from  
6 -- and it's a combination. According to the licensee,  
7 it's a combination of cost-of-service electric rates  
8 and DOE reimbursement of spent fuel costs. So, every  
9 year, they'll inject more into their fund, and then  
10 it'll grow along with normal market growth.

11 MR. TAYLOR: I guess, I thought -- I'm  
12 sorry. I guess, I thought the purpose of the  
13 decommissioning funds was, in the 40-plus years that  
14 Fort Calhoun has been in existence, they were supposed  
15 to be putting enough money in all the way along to  
16 cover the costs.

17 MR. HARWELL: What we have when they're in  
18 operation, we have a minimum formula amount. And that  
19 is a bulk amount. So, it's going to be lower than a  
20 site-specific amount. It's just to ensure that the  
21 licensee is on their way; they're getting close to  
22 getting where they need to be. So, that amount is  
23 also forecasted out when we do these annual  
24 inspections that were mentioned earlier. And we look  
25 for reasonable assurance. So, when we look at the

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1 licensee's amount that they have and then at the  
2 amount that they're going to need at projected license  
3 termination -- you know, obviously, this was an early  
4 shut-down. So, at the time when we looked at them in  
5 operations or last operating, you could see a trust  
6 fund amount; you had the number of years left in  
7 operations; and that, along with the two percent -- we  
8 allow a conservative two percent real rate of return  
9 throughout the growth period -- and they would meet  
10 that minimum formula. And then, at five years prior  
11 to that -- to the projected shut-down date, a licensee  
12 is required to give us a site-specific cost estimate  
13 that will give us a more updated and actual cost. And  
14 then, also, the plan to get the rest of the money.

15 MR. BROADDUS: If I can just supplement as  
16 well. You know, as Shawn said, it's -- we provide in  
17 our regulations a minimum amount. Licensees can  
18 choose to fund -- to put more into that fund if they  
19 would like to. That's a matter of, you know, it  
20 really goes back to the ratepayers. If they're going  
21 to do more than that, then it's going to go back to  
22 the ratepayers and be a higher cost.

23 There have been other plants, such as San  
24 Onofre Nuclear Generating Station, which had  
25 approximately over \$2 billion in their decommissioning

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1 trust fund when they shut down. So, they're going  
2 towards a more rapid decommissioning and  
3 decontamination, and they started with that  
4 immediately after shut-down, essentially.

5 The regulations allow for licensees to  
6 plan for a longer time period if they so choose to do  
7 that. So, it's really up to the State, the licensee,  
8 and the public in that area, you know, from the  
9 standpoint of rates and whether they want to pay up  
10 front to do that. But we provide -- there are options  
11 available for them.

12 MS. RAMIREZ: We'll do one more question,  
13 and then we'll move on, because --

14 MR. TAYLOR: I think there ought to be a  
15 citizen oversight panel created to monitor the  
16 decommissioning process with citizens who will be  
17 affected by the decommissioning and people who have  
18 some expertise in evaluating what's happening. At San  
19 Onofre, for example, I know they have a citizen  
20 engagement panel that has been ongoing. And,  
21 conversely, at Zion in Illinois, they haven't had and  
22 there's been a lot of public concern about the  
23 decommissioning process there. So, I really encourage  
24 the NRC and OPPD to set up a citizen oversight panel.

25 MR. WATSON: I'll just comment on that.

1 This is Bruce Watson. We have no requirements to have  
2 a citizen advisory panel.

3 MR. TAYLOR: I understand that.

4 MR. WATSON: And we recommend it. It's  
5 considered an industry good practice. However, it's  
6 up to the utility or, possibly, another entity, like  
7 the State, to legislate, which is what they've done in  
8 Vermont and in Maine. Zion did have a citizens  
9 engagement panel, but they've kind of lost interest in  
10 it. San Onofre has one that the utility sponsors.  
11 Kewaunee does not have one at all. Crystal River does  
12 not have one at all. They do hold public meetings  
13 every -- I'll say, public offerings for people to come  
14 and comment on the decommissioning of Crystal River,  
15 I think, once a quarter or something like that.

16 I think OPPD is going to be -- has monthly  
17 meetings of their board and management where they --  
18 the public can come and make comments on  
19 decommissioning and any other activity. So, that's --  
20 I believe that's the route they're choosing. So, you  
21 do have an opportunity to go and express opinions and  
22 other people can offer opinions to the OPPD management  
23 and board.

24 So, like I said, we have no requirement,  
25 so it's really the local, specific people that want it

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1 done, how they want to do it. But we encourage it.  
2 So, thank you.

3 MS. RAMIREZ: Next.

4 MS. HAUSMAN: Next, we have Mr. Joe.  
5 Would you like to step up, and would you please state  
6 and spell your last name?

7 MR. JOE: My name is William Joe. Last  
8 name is spelled J-o-e. I am a retired bank trust  
9 officer and spent my career in the pension plan area.  
10 So, the dollars interest me a great deal. And the  
11 gentleman that just spoke before me covered some of  
12 that. But I am confused as a result of an article  
13 that appeared in the *World Herald* today. The  
14 projected cost is a billion-five. And I think you  
15 said a two percent real rate of return. So, two  
16 questions related to that. In the article today, it  
17 suggested a possibility of a \$3 billion total cost and  
18 that, over the next seven years, ratepayers would put  
19 in a billion dollars. The premise for shutting the  
20 plant down, in part, was to save money and the promise  
21 of no ratepayer increases over five years. So, does  
22 that promise include the billion dollars that we're  
23 going to throw in? Finally, who is managing the money  
24 right now, and who will be projected to manage it?

25 MR. WATSON: Shawn, you want to take a

1 shot at that?

2 MR. HARWELL: I can do some of it.

3 MR. WATSON: Okay. We might not have all  
4 the answers, but --

5 MR. HARWELL: Some of the answers may come  
6 from the other side of the room. But I think, when  
7 you saw the three billion, I saw that article myself.  
8 I went back and dug. And what I see is the cost that  
9 you see, the 1.5 billion, that is in 2016 dollars.  
10 That's a requirement. That's the overnight cost. I  
11 went and looked at the Annual Decommissioning Funding  
12 Status Report that we just got, and in their -- in the  
13 -- in one element, the licensee is required to tell us  
14 how much they -- again, we see about the 1.3, 1.5  
15 billion. But in their cash-flow analysis, they did  
16 not keep those in constant dollars. They escalated  
17 the dollars for inflation. That's where the three  
18 billion comes from.

19 Now, as far as their management, I believe  
20 it's Bank of Omaha. Bank of --

21 MS. FISHER: I believe it's First  
22 National.

23 MR. JOE: They're managing the money now?

24 MS. FISHER: The trust --

25 MS. RAMIREZ: The question was they're

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1 managing the money now?

2 MR. JOE: Are they the trustee and the  
3 manager of the money or just the trustee of the fund?

4 MS. HAUSMAN: Excuse me. The transcriber  
5 can't record if she can't hear. Thank you.

6 MR. JOE: Yes. First National is a fine  
7 institution. The question is are they the trustee  
8 only, the trustee and the manager, or is there more  
9 than one manager? In that business, quite often, it's  
10 split up; and that's what I'm curious about.

11 MS. FISHER: Hi. I'm Mary Fisher with  
12 OPPD, and I am the Senior Director for the  
13 decommissioning at Fort Calhoun. And the money is  
14 managed within our financial area. So, our financial  
15 services area manages the money in conjunction with  
16 First National.

17 MS. RAMIREZ: All right, next question?

18 MS. HAUSMAN: Yes, thank you. Mr. Leon.  
19 And, again, would you please state and spell your last  
20 name for me when you get to the microphone.

21 MR. LUNDREN: The last name is L-u-n-d-r-  
22 e-n. My question is they had an armed security force  
23 at the nuclear plant. Will that be maintained, or is  
24 it one guy with a .32 and a gray top? You understand  
25 what I mean? When I applied for a job there, you had

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1 to be rifle-qualified. What type of security do they  
2 have now over those spent rods?

3 MR. WATSON: Right now, they have a fully  
4 armed security force that will maintain the security  
5 for the entire site. I can't go into many details,  
6 but they are well-armed. And I think they have some  
7 automatic weapons and other things. But when the fuel  
8 is moved to the fuel (sic), it will become an  
9 industrial security for the remainder of the site.  
10 However, the spent fuel facility will have its own  
11 dedicated guard force that's there 24/7.

12 MR. LUNDREN: Okay, thank you.

13 MS. HAUSMAN: Is there anybody else who  
14 has a question or would like to make a comment? Yes,  
15 sir.

16 MR. THRAEN: My name is LaVerne Thraen, T-  
17 h-r-a-e-n, LaVerne. So, are you aware of the UCLA  
18 studies of concrete and radiation, showing that  
19 concrete breaks down much faster than you believed in  
20 the past? And that the Department of Energy is also  
21 funding the University of Nebraska on doing concrete  
22 and radiation studies for the same purpose?

23 MR. WATSON: Well, I can say that the NRC  
24 also does its own research. And so, I'm sure there  
25 are people who do the aging-management issues

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1 associated with the concrete and our spent fuel casks  
2 and other materials are well-aware of all the studies  
3 that are going on out there, including our own that we  
4 sponsor specifically for our needs to ensure that the  
5 storage of the spent fuel remains safe.

6 MR. THRAEN: So, are you still using old  
7 mixes? You know, how we used to do concrete from  
8 casts from 1998, like when you cast then? Are you  
9 using new concrete mixes that don't break down from  
10 radiation, since you know about this study?

11 MR. WATSON: Well, I'm not so sure that I  
12 could validate what you just said about the  
13 degradation of the concrete. So, I'm going to turn it  
14 over to Ray.

15 MR. KELLAR: So, making of concrete hasn't  
16 really changed a lot in a number of years. I mean,  
17 some of the admixtures and plasticizers, things like  
18 that, have improved. But it's still cement, it's  
19 still aggregate, and it's still water, is basically  
20 concrete. So, I know of some problems they had at  
21 reactors, because of the fact that you had a very high  
22 flux that was close to the concrete, but I have not  
23 heard of any problems with the concrete associated  
24 with ISFSIs. But, as Bruce said, I'm sure the  
25 Division of Spent Fuel Management is aware of those

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1 issues.

2 MR. THRAEN: So, you're still operating on  
3 the fact that the concrete the way you used to mix it  
4 works?

5 MR. KELLAR: Well, I think what Bruce said  
6 is the people -- we don't have people here that can  
7 directly answer your question tonight. So --

8 MR. THRAEN: All right, then, that's fine.  
9 Next question. Are the casks going to be far enough  
10 apart so if somebody was to lob a bomb in there, that  
11 they wouldn't catch two or three casks? You know,  
12 that one would just get hit? You know, I mean, it's  
13 along the river. I mean, you can take a boat and  
14 shoot a missile into that very easily. People are  
15 dying all over the world every night on the news from  
16 people who are shooting missiles in trucks and what  
17 have you, and the river is very accessible. You can  
18 go right across the river on the little beach over  
19 there and nearly throw a baseball and hit the plant,  
20 because it is that narrow in that particular channel.  
21 And that's why it was stuck there, because it was  
22 narrow and they could get easy water access. So,  
23 anyway, I'm just curious if they're going to be far  
24 enough apart so that, if somebody shoots a missile in  
25 there, that he'll get one and not all of them.

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1 MR. KELLAR: So, that's a very good  
2 question. Now, there are different types of casks and  
3 canisters. I think the ones that the licensee  
4 currently has are very close together. There's some  
5 other ones are vertical which are spaced further  
6 apart, and there are some others that are actually  
7 underground that you couldn't even hit at all if you  
8 wanted to. Now, --

9 MR. THRAEN: But at this site, they're all  
10 in one cluster pad, right?

11 MR. KELLAR: Well, the current ones that  
12 they have are, but they haven't decided which cask  
13 vendor to use for the rest. And you're actually going  
14 beyond what we can even talk about here, because  
15 you're getting into some of the security aspects of  
16 these canisters, and we can't discuss that in any of  
17 our --

18 MR. WATSON: But the design is that they  
19 can --

20 MR. THRAEN: And just as a piece of  
21 information for you guys, I just want to say, there is  
22 a higher piece of ground on that site that could be  
23 used for putting those canisters up there. I'd just  
24 like you be aware of that, maybe look around, and  
25 maybe say, maybe this pad isn't the greatest pad. I

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1 know it's at the line, but a little higher up, you  
2 know, global warming, dam breaks, what have you. I  
3 don't know if you've seen the dam break studies of the  
4 dams above the plant. Probably haven't seen those  
5 either. Anyway.

6 MR. WATSON: I was just going to comment  
7 on the actual design criteria for the casks in the dry  
8 storage facilities take into account that they are hit  
9 by missiles, including large planes and other things  
10 that might, by coincidence, ever crash into them. So,  
11 I think they're fairly robust. They are robust in  
12 their design and can withstand a significant amount of  
13 impact within the design of the facility. So, I don't  
14 think the spacing is necessarily an issue; it's actual  
15 design of the canister, it's shielding, and the actual  
16 depth and size of the concrete in the facility that's  
17 surrounding it.

18 MR. THRAEN: And I understand the waste  
19 isn't going anywhere, but the rest of the plant's  
20 going to be shipped off to, like, Utah. Am I right  
21 about that?

22 MR. WATSON: The bulk of the waste will  
23 eventually go to a low -- it will go to a low-level  
24 disposal site. A lot will have to do with what  
25 contracts OPPD has in concert at the time. Right now,

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1 the site in Utah will accept all the Class A waste and  
2 the site in Texas will take all the B and C waste.

3 MS. HAUSMAN: Thank you. Is there anybody  
4 else that has a question? Ma'am.

5 MS. MACKEY-TAYLOR: I'm Pam Mackey-Taylor.  
6 I'm with Sierra Club. And earlier in the formal  
7 presentation, you had displayed a name and address  
8 where you could send comments. Could you please put  
9 that up again so we can see that?

10 MR. WATSON: Jack will bring that up.

11 MR. BROADDUS: And as I mentioned earlier,  
12 we'll update our -- the public website for where we  
13 have the public meeting notice to include the slides  
14 that we've presented here so that they're available on  
15 that website.

16 MS. RAMIREZ: There's a copy of the  
17 slides, too, outside. So, you can collect that and  
18 have it with you.

19 MR. BROADDUS: Yeah, but this particular  
20 slide was an add-on at the very last minute.

21 MS. RAMIREZ: Two seconds. Is there  
22 anybody else that has a question before we start --

23 MR. THRAEN: It says here in your flyer  
24 here that --

25 MR. WATSON: Can you state your name

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1 again?

2 MR. THRAEN: LaVerne Thraen, T-h-r-a-e-n.  
3 Dry storage, it states, has released no radiation that  
4 affected the public or contamination of the  
5 environment. Has there been any radiation leaks,  
6 period, that didn't contaminate anything, but there  
7 was still a leak? In the flyer here it says that no  
8 containment vessel has ever damaged the environment  
9 or, you know, --

10 MR. WATSON: This is a true statement.

11 MR. THRAEN: Right. But has there ever  
12 been a leak that didn't, you know, you could have a  
13 leak in the middle of the desert --

14 MR. WATSON: There have not been any, no.

15 MR. THRAEN: -- but it didn't hurt  
16 anything.

17 MR. WATSON: No. The entire containers  
18 maintain their integrity and there have not been any  
19 leaks.

20 MR. THRAEN: There's never been a leak in  
21 any container ever built by you guys. All right.

22 MR. WATSON: Well, we don't build them, we  
23 license them.

24 MR. THRAEN: Well, I understand, but you  
25 regulate them.

1 MS. RAMIREZ: All right, thank you.

2 Any other questions?

3 MS. HAUSMAN: Going once. Going twice.

4 All right, thank you.

5 MR. WATSON: Are we sure we don't have any  
6 more comments or any discussion that you would like to  
7 bring up? I mean, we're here for the evening. The  
8 staff will be available if you want to speak to them  
9 individually. If there's anybody that wanted to ask  
10 a question and hasn't had the opportunity, we'll give  
11 you one more shot now or provide a card to Cheryl or  
12 Frances to read for you.

13 Hearing none, I would like to thank you  
14 for coming out tonight. I guess this will conclude  
15 the formal presentation and comment session. I do  
16 encourage you to go to the website and provide  
17 comments. You can write -- like I said, you can put  
18 them on the website. Send them through the website,  
19 regulations.gov. And, also, you can send us letters  
20 or whatever to the NRC with comments also. And we  
21 will be using the comments from this -- tonight's  
22 meeting to incorporate into our meeting summary and  
23 evaluate them against the PSDAR Report as it was  
24 submitted to us. Thank you all for coming.

25 MS. HAUSMAN: I would like to make one

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1 mention that, for openness and transparency, a copy of  
2 the transcript will be available on NRC's webpage.

3 Thank you.

4 (Whereupon, May 31, 2017, the meeting was  
5 concluded.)

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