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## NUCLEAR REGULATORY COMMISSION

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Review Panel Meeting

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UNITED STATES OF AMERICA  
NUCLEAR REGULATORY COMMISSION  
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LICENSING SUPPORT NETWORK ADVISORY REVIEW PANEL  
(LSNARP)  
MEETING  
+ + + + +  
THURSDAY  
SEPTEMBER 19, 2002  
+ + + + +  
LAS VEGAS, NEVADA  
+ + + + +

The Panel was called to order at the Alexis Park Hotel, 375 East Harmon Avenue, Las Vegas, Nevada 89109, at 9:00 a.m., by Andrew Bates, Chairman, presiding.

COMMITTEE MEMBERS PRESENT:

ANDREW BATES, Chairman  
DAN GRASER, NRC, Member  
G. PAUL BOLLWEEK, II, NRC, Non-Voting Member  
MITZI YOUNG, NRC, Office of General Counsel  
ROD MCCULLUM, NEI, Member  
MARK VAN DER PUY, DOE, Member  
STEVE FRISCHMAN, State of Nevada, Member

1 COMMITTEE MEMBERS PRESENT: (cont.)  
2 ABBY JOHNSON, Eureka County, NV, Member  
3 MAL MURPHY, Nye County NV, Member  
4 ENGBRECHT TIESENHAUSEN, Clark County NV, Member  
5 JUDY TREICHEL, NNWTF, Member

6

7 ALSO PRESENT:

8 JEFF CIOCCO, NRC

9 MARGIE JANNEY, NRC

10 PAT MACKIN, NR

11 JIM SCHAEFFER, NRC

12 MATT SCHMIT, NRC

13 JOSEPH TURNER, NRC

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

2 (9:00 a.m.)

3 CHAIRMAN BATES: Good morning. If we could  
4 get started with the meeting. The first item on the  
5 schedule this morning is an overview of the NRC Plans  
6 for the Digital Courtroom Environment, and we went  
7 through yesterday an overall scheme of the NRC's  
8 electronic processes.

9 And the SLBP has recently let a contractor  
10 move forward in this area, and Margie Janney will give  
11 a review on where we stand on that, and the concepts  
12 related to that.

13 MS. JANNEY: Good morning. I am Margie  
14 Janney and I work for the NRC in the Atomic Safety and  
15 Licensing Board Panel. The NRC intends to establish  
16 and operate a hearing room with digital information  
17 retrieval, utilization, and display capabilities.

18 Although the driving force for its use is  
19 with the potential licensing proceedings for a high  
20 level waste repository in Yucca Mountain, the  
21 electronic courtroom technology installed in  
22 Rockville, Maryland, will be available for use in all  
23 ASLBP proceedings.

24 The NRC is pursuing the DDMS initiative in  
25 order to leverage the investments made in digitizing

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1 the docket for LSN and electronic hearing docket  
2 requirements.

3 In addition, studies have shown that  
4 digital technology in the courtroom can reduce hearing  
5 time by as much as 40 percent.

6 The NRC edition of the DDMS could be used  
7 in a hearing room at the NRC Headquarters in  
8 Rockville, Maryland, as well as in a hearing room  
9 established in the Las Vegas area. The system will  
10 permit the creation and use of an integrated,  
11 comprehensive, digital record.

12 Using information that is pre-compiled  
13 electronically by hearing participants into the  
14 Agency's electronic hearing docket, DDMS will record,  
15 store, and display the text and image of documents and  
16 other digital data used during hearing.

17 It will permit access and retrieval of the  
18 entire documentary and video record of the proceeding  
19 in an electronic format. The system will allow the  
20 parties to bring prepared material to the evidentiary  
21 hearing electronically.

22 It will be able to have that information  
23 integrated concurrently with the record you present in  
24 the hearing room and added to the Agency's EHD via the  
25 DDMS.

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1           There are several courtrooms which have  
2 operational automated environments, and the NRC's  
3 edition was based on need, such as Courtroom 21 in the  
4 Law School of the College of William and Mary,  
5 Williamsburg, Virginia; and the National Judicial  
6 College in Reno, Nevada.

7           There are also numerous courtrooms around  
8 the country which have state-of-the-art audio-visual  
9 technology installed in them. The contractor team  
10 chosen demonstrates experience in successfully  
11 implementing court and courtroom solutions nationwide.

12           The contractor team chosen represent  
13 extensive experience in supporting the Federal Courts'  
14 hearing and case management, court case management,  
15 and technology solutions.

16           The team has outstanding subject matter  
17 expertise and experience in both the mission and the  
18 use of information technology in State, Federal and  
19 local courts and courtrooms. The request for quotes  
20 for the DDMS was issued on March 14<sup>th</sup>, 2002.

21           The contract was awarded to PEC Solutions,  
22 Inc., in August of 2002. PEC has been supporting the  
23 Federal Judiciary in IT projects since 1993, and has  
24 a strong background in case management.

25           Their partners include Exhibit 1, which

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1 currently holds one of three nationwide contracts for  
2 installing courtroom technology in Federal Courtrooms.

3 They have installed courtroom technology  
4 in more than 134 rooms at the Federal, State and local  
5 level. Another partner is Media Edge, which  
6 specializes in portal development, screening video,  
7 webcasting, and development of searchable video. They  
8 developed multi-media web-based solutions for Court  
9 21, among other well-known courtrooms.

10 And the third partner is Justice Systems,  
11 Inc., or JSI, which has developed an integrated case  
12 management system that is installed in more than 70  
13 locations in 23 States.

14 PEC proposes software for DDMS that  
15 includes the following products. First, full port from  
16 JSI will be used to provide docket and case management  
17 functions.

18 Second, Plum Tree Corporate Portal from  
19 Plum Tree Corporation will be used to address document  
20 management, and multi-media management, which brings  
21 together the document and program management features,  
22 along with searchable video and audio, through the use  
23 of web technology.

24 And finally Plum Tree's collaborative  
25 server for collaboration on projects, such as setting

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1 schedules, sharing documents, and exchanging ideas.  
2 The collaboration server provides a view of active  
3 projects with all the other resources integrated into  
4 the portal, including e-mail and multi-media objects.

5 The contractor is currently working on  
6 validating the functional requirements identified  
7 during the project's approval phase. The functional  
8 requirements will be used to derive the detailed  
9 design for the overall system, which is set to be  
10 implemented in distinct phases.

11 The first phase will deliver a pilot IT  
12 component next summer. It will include a fully  
13 featured and fully integrated operational pilot  
14 computer system giving judges and litigants the  
15 capability to control the use of documentary material  
16 in a digital environment during adjudicatory hearings.

17 The final system will be scaleable so as  
18 to support the two hearing room environment  
19 simultaneously. In addition, the scalability will allow  
20 possible future use in smaller proceedings conducted  
21 at temporary locations across the country, with  
22 affordable prices, with relatively low speed  
23 communications access.

24 The second phase of the DDMS project  
25 provides upgraded digital A/V equipment with the

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1 existing ASLBP-Rockville hearing room. In the fall of  
2 2003, we plan on having the contractor install a  
3 fully-automated and integrated courtroom environment  
4 with multi-media input, and output, and search  
5 features.

6 The A/V components will demonstrated video  
7 conferencing with cameras, both fixed and hand and  
8 tilt view cameras, which will capture and broadcast  
9 the proceedings.

10 The video images recorded by various  
11 cameras operating throughout the hearing room will be  
12 captured digitally. Desktop and large screen display  
13 monitors will present electronic evidence or exhibits  
14 to judges, litigants, clerks, witnesses, and the  
15 audience.

16 Digital presentation devices will present  
17 paper or physical exhibits that are not yet in a n  
18 electronic format. Video monitors connected between  
19 a video source and monitor will allow presenters  
20 easily to draw a point on video images.

21 Real-time transcription will permit the  
22 synchronization of transcripts with video information  
23 and provide closed-caption. Audio translation  
24 equipment also may be available that will allow  
25 skilled interpreters, using telephone communications

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1 equipment, to deliver simultaneous and consecutive  
2 interpreting for groups and individuals.

3 The third phase of the DDMS project will  
4 make the NRC Rockville hearing room operational, and  
5 during this phase, we plan on converting the pilot IT  
6 suite delivered in the first phase into a  
7 developmental environment, and integrating this fully  
8 operational IT capability with the A/V upgrade  
9 accomplished in the second phase.

10 This effort will result in the ability to  
11 prove the system through a pre-operational testing  
12 base, consisting of a mock hearing designed to  
13 simulate hearings, such as though that may occur on  
14 the part of the High Level Waste Licensing Committee  
15 in Las Vegas.

16 The third phase will also provide ongoing  
17 assessment support for the technologies needed for the  
18 Las Vegas area implementation. If available on time,  
19 it could be used for pre-hearing conferences on high  
20 level waste applications.

21 A separate contractual vehicle covering  
22 DDMS implementation into the Las Vegas area hearing  
23 facility will be competed at a later date. We  
24 currently anticipate that the Las Vegas area hearing  
25 room will be operational in early 2005, with DDMS

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1 training for the parties to the proceeding also  
2 occurring in early 2005.

3 This is a photo of the National Judicial  
4 College in Reno, Nevada, of which I mentioned earlier  
5 as being one of the courtrooms with an operational  
6 automated environment.

7 Here you can see the monitors and the  
8 Judge's bench, and the clerk's table, and a  
9 presentation podium at the litigant's table.

10 Note that it lies next to the podium that  
11 will digitize three-dimensional exhibits for  
12 presentation. Notice the professionalism of the  
13 courtroom and how neat and clean it is because the  
14 technology is incorporated into the construction and  
15 the furniture.

16 It has been well-planned so that the  
17 technology is integral, but unobtrusive. You see no  
18 wires hanging out, and the technology within the  
19 courtroom maintains a decorum without distraction.

20 In summary, as Jim said earlier yesterday, the  
21 digital data management system gives the hearing room  
22 digital information retrieval, utilization, and  
23 display capabilities to conduct a major portion of a  
24 High Level Waste Repository Licensing proceeding.

25 It permits the creation and use of an

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1 integrated, comprehensive, digital record of the  
2 proceedings. Questions?

3 MR. MURPHY: This is Mal Murphy, and I  
4 have two questions, and one just for clarification.  
5 You said or you mentioned the two courtroom  
6 environment, and so are you taking about a courtroom  
7 here and back at the NRC?

8 MS. JANNEY: That's correct. We are going  
9 to implement it in Rockville first.

10 MR. MURPHY: Because I know that you are  
11 planning to have more than one panel, and --

12 MS. JANNEY: Oh, we could have two  
13 courtrooms going simultaneous with multiple panels in  
14 each courtroom.

15 MR. MURPHY: Technically, you could, but  
16 you will hear squeals of protest out of this small  
17 county. And the other question is out of curiosity,  
18 why are you considering (inaudible)? For what purpose?

19 MR. BOLLWEEK: That is simply the  
20 technology that is available, and the opportunity to  
21 use it, and it's there.

22 MS. TREICHEL: Is it possible that there  
23 would be some stuff that would just has to be on  
24 paper, and that not everything would be electronic?

25 MR. BOLLWEEK: Well, there if they have

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1       been digitized, we will use it that way. Having said  
2       that, eventually we may get back to paper in some way  
3       or another. I am not saying there won't be any paper  
4       in the hearing room. But certainly that is not going  
5       to be the preface.

6                   MS. TREICHEL: But some documents -- and  
7       let's say like there is this huge, huge thing that is  
8       very, very old, and very difficult to just be used as  
9       itself, or any other kind of document, there is a  
10      possibility that somebody could come in with this and  
11      they had copies for everybody.

12                  MR. BOLLWEEK: Well, I mean, again, the  
13      aim, and if you read the rule, it is certainly the  
14      intent of rules that everything is if at all possible  
15      be initially digitized and be put in the record that  
16      way.

17                  I can't say that I -- that a huge map  
18      can't come in that is not digitized, and is old and  
19      fragile, and it can't be digitized, but most things  
20      these days can be digitized.

21                  MR. GRASER: The courtrooms that we went  
22      out and surveyed as part of doing our initial research  
23      on courtroom technologies all had the capability of  
24      having essentially a multi-function device that was  
25      set off to the side of the courtroom.

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1           And that multi-function device was able to  
2 act as a fax machine, a copier, a printer, and all the  
3 courtrooms had one of those pieces of technology  
4 sitting over in the corner to accommodate, you know,  
5 the level of paper handling when it was necessary to  
6 do so.

7           From the design that we put forward, we do  
8 have scanning equipment that would be available in a  
9 courtroom environment, and that scanning equipment  
10 could take a piece of paper which for the first time  
11 might show up and not have previously been digitized,  
12 and we would still have the resource right in the  
13 courtroom to capture that and put it into an  
14 electronic format.

15           But that is not the main concept of  
16 operations for the courtroom to operate as Paul  
17 indicated, and the intention is to go as much  
18 electronic and to leverage the investment in having  
19 the electronic documents already, and to be electronic  
20 as much as possible.

21           MR. FRISCHMAN: How much training does it  
22 take to fly this program?

23           MR. BOLLWEEK: Since the system has not  
24 been fully designed, I can't answer that question  
25 precisely. But we are well aware that for the LSN,

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1 that training is going to be an important component of  
2 this obviously.

3 And I am going to have trained on it, and  
4 Mal Murphy is going to have to be trained on it. The  
5 other litigants and their attorneys are going to have  
6 to be trained on it, and that is part of what we have  
7 to do.

8 MR. FRISCHMAN: Well, the cases that we  
9 are involved in right now will be dragged into the  
10 electronic world and the attorneys aren't very  
11 friendly to it, and they are used to paper.

12 And we are having - you know, we just  
13 received 16,000 documents on 43 disks, and we are  
14 trying to figure out the most efficient way to deal  
15 with them, and if it was paper, we would know how to  
16 deal with it.

17 And the people who made the disks were  
18 multi-media people, and I am just kind of wondering  
19 whether you are figuring that in the biggest  
20 experiment that man has probably ever undertaken, and  
21 we are now putting in an F-16, and trying to make  
22 everybody a pilot on top of that, I am just wondering  
23 whether maybe we should take some small steps first,  
24 and I see that you have a few -- sort of demos  
25 planned, but I am kind of concerned that the substance

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1 is somehow going to get lost in this system.

2 MR. MURPHY: I guess I am going to have to  
3 hire a 13 year old paralegal.

4 MR. GRASER: Let me respond to some of  
5 those concerns as well. The way the ASLBP normally  
6 conducts and transacts hearings. is to utilize a Clerk  
7 of the Court type person to support the proceedings.

8 And in looking at the concept of  
9 operations for a digital courtroom, we anticipate that  
10 there would be a central control console that would be  
11 operated by the ASLBP, or a contractor, and a lot of  
12 the manipulation and cueing up of the information and  
13 getting it organized, and prepared for a day's  
14 activities would be done well in advance of the  
15 commencement of the proceedings.

16 And the person who is running the control  
17 console lists of the potential exhibits and lists of  
18 potential witnesses and so forth, essentially  
19 conceptually they are already cued up and ready to  
20 roll.

21 And at that point then the training that  
22 we were talking about primarily is how courtroom  
23 presenters would attempt to interact, and what sorts  
24 of verbal cues they would need to give to get the  
25 support staff to flip a button, or pop something up on

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1 the screen.

2 So it is not as if each individual who  
3 wants to approach the podium has to learn how to  
4 operate the F-16. In fact, all you probably need to  
5 do is if you have to sit in the back seat and enjoy  
6 the ride.

7 MR. FRISCHMAN: Well, who would be in  
8 charge?

9 MR. GRASER: Who would be in charge?

10 MR. FRISCHMAN: No, I mean who would be in  
11 charge of making this whole thing work in an ordinary  
12 way? Let's say there is a clerk who rehearses  
13 overnight, but is there -- do you have - there is  
14 there going to be a judge, but is there going to be  
15 the equivalent of a technician?

16 MR. GRASER: Yes, that is what I am saying.  
17 There will be an individual that is going to be  
18 working with the ASLBP organization, and that would be  
19 responsible for doing all of the operations of the  
20 various inputs and outputs of the multimedia and  
21 devices.

22 MR. BOLLWEEK: You should also be aware  
23 that our hope is that if attorneys want to learn or to  
24 use the system in their hotel rooms, they can just  
25 connect to the internet to use it, to access it, and

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1 there will be an opportunity again to use it, and to  
2 access it, and use for searches, in terms of the  
3 information that is on there.

4 So there is also that opportunity for the  
5 attorneys to use it as well.

6 MR. FRISCHMAN: I am sort of a skeptic,  
7 because I have yet to see a video conference with the  
8 DOE and the NRC work in that fashion.

9 MR. BOLLWEEK: You and the Commissioner are  
10 both skeptics, but I have had many discussions with  
11 the Chairman about this, and he made it clear to me  
12 that this needs to work in a way that is easy, and I  
13 won't say seamless, but certainly does not stress the  
14 litigations in terms of their ability to deal with  
15 this, and we are all aware of your concerns.

16 MR. FRISCHMAN: You should try to go  
17 through a couple of technical exchanges to understand  
18 the technology.

19 CHAIRMAN BATES: Abby.

20 MS. JOHNSON: Abby Johnson, Eureka County.  
21 I have two questions. Following up on Steve's  
22 question, since sometimes stuff just happens, is there  
23 going to be a sort of backup plan for bad hair days in  
24 court?

25 MR. BOLLWEEK: To a degree the backup is in

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1 fact the electronic hearing docket, the DDMS  
2 electronic hearing document record, and that is a  
3 separate documentary basis that we can draw from. And  
4 they back each other up to some degree and so forth.

5 And if for some reason the EHD were down,  
6 which is essentially NRC headquarters based, then we  
7 have to go through the DDMS, though not seamlessly,  
8 and it would be a little difficult, but certainly  
9 there would be that opportunity to deliver that  
10 electronic information out.

11 MS. JOHNSON: My second question is, and  
12 this may not be the right venue to ask it, but is it  
13 the intent to do an internet broadcast of the  
14 hearings?

15 MR. GLASER: We have talked with the  
16 Commissioner and indicated that we would be  
17 interesting in doing webcasting, and the Commission is  
18 currently do webcasting of its own proceedings. I  
19 think that might be useful.

20 The project at this point does not include  
21 funding for that, but if it does look like something  
22 that the Commission is convinced would work well with,  
23 we would certainly go back and ask for additional  
24 money.

25 And the architecture that was proposed by

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1 the vendor certainly supports later on going back in  
2 and adding webcasting features. So architecturally it  
3 is already prepared to handle that sort of thing as  
4 well, and to just by the products and tools that they  
5 have offered.

6 MR. FRISCHMAN: Did you say that you think  
7 you can improve proficiency by about 40 percent?  
8 Where are the biggest gains in the system? I'm doing  
9 sort of a sensitivity analysis.

10 MR. GRASER: I think what Margie indicated  
11 was that studies have shown that in other courtroom  
12 environments that the productivity increased by as  
13 much as 40 percent, and if I recall the study, they  
14 were focusing specifically on maintaining the  
15 courtroom pace and flow in terms of identification and  
16 marking types of activities on exhibits, and that was  
17 primarily where a lot of the time was being saved.

18 And we just had things ready and  
19 organized, and available, without having to actually  
20 get up and walk over to some place and hand something  
21 to somebody, and then having to wait for a few minutes  
22 while they rubber stamped it, and getting it marked  
23 and so forth.

24 So the timing savings that they were  
25 talking about were primarily in the actual practice in

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1 the courtroom of identifying, marking, and presenting  
2 exhibits.

3 XX16 MR. MURPHY: And if I could just say to  
4 Steve, do you remember going over and watching the  
5 hearings and how much dead time there was where people  
6 were just shuffling papers around, and the courtroom  
7 was in total silence, and -

8 MS. YOUNG: I don't know anything about  
9 percentages, but I know that in terms of my experience  
10 that NRC hearings involve a lot of documents between  
11 the parties, and a lot of our time is spent, counsel's  
12 time is spent, searching for things that we are going  
13 to use in the courtroom in reference to direct  
14 examination or on cross-examination.

15 You have staff there helping you to try  
16 and find exhibits. If you had an electronic system  
17 where you could put in a few key words, and pop up  
18 what you are looking for, rather than going through  
19 boxes and boxes of paper records, which we have had to  
20 do in many of the hearings that I have been in.

21 And that would also save you some time,  
22 and so I think that is the goal of this project. In  
23 addition in response to something else that you raised  
24 earlier about problems in video conferencing.

25 I have been in a few of those myself, and

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1 we attempted in Courtroom 21, and the experiences  
2 there really gave me confidence that such things as  
3 video conferencing, in terms of the courtroom  
4 environment.

5 They had described to us - with a District  
6 or a State court, but the Judge was remote in  
7 Australia, and the witnesses were testifying from  
8 Europe, and the clerk and the attorneys were in the  
9 courtroom.

10 MR. FRISCHMAN: I heard about that.

11 MS. YOUNG: And it went off without a  
12 hitch, and there wasn't even any kind of significant  
13 translation due to delays in the proceedings, and they  
14 thought - and they feel confident that this technology  
15 is workable, and has proven itself when everything  
16 works certainly.

17 MR. FRISCHMAN: Well, I was asking where  
18 the time was saved, and I don't - time is getting  
19 spent, and is continually reproducible, because  
20 somebody - at some point - work to save time, and I  
21 guess I was being a little cynical as to the  
22 interchange --.

23 MR. BOLLWEEK: --, but again I understand  
24 our - you used the word cynicism, but there is some  
25 skepticism, I will put it that way, as to whether this

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1 was working, and we are going to have a workable  
2 process, and we are going to have to educate folks,  
3 and we are going to do that to get all of this in on  
4 how to work it.

5 That is one of the reasons why it is  
6 important for us to try to get it in, and operating in  
7 the pre-hearing phase, where it tends to be a little  
8 less paper intensive, in terms of - and there is paper  
9 involved in - in an evidentiary hearing, and you use  
10 this where you get the attorneys and the judge  
11 familiar with it, so that when we do get - evidentiary  
12 proceedings that everyone will be comfortable with the  
13 system.

14 And again we are talking about something  
15 that is two years down the road, and I have been  
16 dealing with attorneys now since 1996, dealing just in  
17 e-mails, and terms of files back and forth, and I was  
18 told that this would never work, and - and submitting  
19 them by e-mail, and - and - to submit documents --.

20 So really there is a challenge here, but  
21 I think it is one that we need to move forward with.

22 MR. FRISCHMAN: I guess we have just come  
23 full-circle with respect to a training curve, and -

24 MR. BOLLWEEK: Absolutely, and I fully  
25 understand that, and that is something that we - are

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1 well aware of, and - decision.

2 CHAIRMAN BATES: Okay. I guess then we  
3 will move on to our next presentation by Matt Schmit,  
4 which is a demonstration of the Production Version 2.0  
5 of the LSN. Matt.

6 MR. SCHMIT: Good morning. I am Matt  
7 Schmit from the NRC, and I am going to run through a  
8 little demo on the LSN, and - trying to get it set up  
9 with a keyboard and a microphone here, but I think I  
10 will be able to manage all of this.

11 I am going to basically walk through  
12 pretty much the entire site. I think one of the  
13 training goals is to reduce the amount that needs to  
14 be done and so we have tried to make it as easy as  
15 possible, but it is always a balance between features,  
16 functionality, and trying to keep it as simple as  
17 possible.

18 And we will continually try to work the -  
19 so that the users can understand where that fits - or  
20 things that can be simplified. If you go to  
21 [www.LSN.net.co](http://www.LSN.net.co), and we also have [.com](http://www.LSN.net.com) and [.org](http://www.LSN.net.org), and  
22 they go to the same site, and - the URLs outside of  
23 the [.gov](http://www.LSN.net.gov), just to keep problems from arising with  
24 [WhiteHouse.com](http://www.WhiteHouse.com), and these other --.

25 So you type that into your browsers as the

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1 LSN homepage, and I just want to step you through real  
2 it real quick. The first thing I am going to do, and  
3 because we are in testing right now, and participants  
4 will also be using this feature firsthand - log in  
5 button.

6 I just want to talk about the log in for  
7 a second, because there was a couple of things going  
8 on and I just wanted to explain to you what the  
9 benefits are and what the process that is actually  
10 happening here.

11 When you log into the LSN as a  
12 participant, and Joe Turner will talk a little bit  
13 about this as far as working with you to find out who  
14 your users are so that you can enter them into the  
15 system, and give them a password user ID.

16 And you give the participants a couple of  
17 advantages. You actually will have an e-mail link,  
18 for example, to the LSMA for submitting, and I will  
19 show you that.

20 And points of contact with other  
21 participants, and that will be available and that will  
22 allow you to get points of contact with other  
23 participants. Priority access to the system, I think  
24 I talked a little bit yesterday just about trying to  
25 make sure that participants have access to the system

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1 if there is a period of.

2 Access to other features, such as -- and  
3 again Joe Turner will be talking about this next, but  
4 a header generator for - participants, and making  
5 documents available on the LSN, and there is some  
6 documentation and actually some software that tend to  
7 do those kinds of things.

8 So logging in gives you those kinds of  
9 features. Now one of the things that we did when we  
10 did the upgrade was that we added a security reserve.  
11 The log-in ID and password are actually encrypted when  
12 they are sent across the internet.

13 Now, none of the data in the LSN needs to  
14 be protected and so only the log-in ID and password  
15 are encrypted. So when I click log-in, a message box  
16 comes up that says that you are redirected a  
17 connection that is not secure.

18 So our password and ID are going to be  
19 sent securely, but then we are going to be back into  
20 - we are not going to get into a technical discussion,  
21 but basically - web technology, because none of the  
22 information beyond this needs to be protected, and  
23 there is performance gains whenever you use this  
24 security, and gather security and there is some  
25 definition of performance.

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1           Okay. So this is the LSN home page, and  
2 I just want to talk about a few of the things that you  
3 will notice as you move around the site. This is what  
4 we call the global navigation bar, and then the local  
5 navigation bar on the left side here.

6           If you hold your mouse over the buttons,  
7 you will see that the little flyer pops up and tells  
8 you exactly what that is, and - will do that.

9           The privacy and disclaimer pages are both  
10 up here, and anything that is a link, a hyperlink -  
11 are familiar with that, can see the cursor changes  
12 from an arrow to a hand.

13           So with that, I am just going to move  
14 through all of the - and one thing that I want to  
15 point out, too, is at the bottom of every page you  
16 have an LSN webmaster link.

17           If you click on that, that will send an e-  
18 mail, and it actually comes to all four of us -- Dan,  
19 Margie, Joe, and myself -- to respond to, and as Dan  
20 mentioned yesterday, we have responded to several  
21 things - on some of them, and that are actually on  
22 this list are things that we have been fortunate, in  
23 that we have not had a lot of things that have come  
24 through that weren't related to the LSN.

25           So with that, I just want to move more

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1 quickly. There was a banner here, and we talked about  
2 moving the documents. So the only thing that we have  
3 available, and you will see that in the demo right  
4 now, is just documents where we are working from a  
5 system perspective, and so we have a banner up here  
6 just letting people know that there will occasionally  
7 be test documents up.

8 And we will be sure to let participants  
9 know when documents will be made available, and you  
10 can take a look at them. Right now we are still  
11 working through the test and acceptance process on  
12 Version 2 of the software.

13 So just moving down the left side of the  
14 links here, we have separate links that I just wanted  
15 to point out to you about the licensing support  
16 network, and then the guidelines that we talked about  
17 yesterday are all here and available for participants  
18 to take a look at. They are in BDF format.

19 One other thing that I should mention,  
20 too. I did do some screen prints of just about 6 or 8  
21 of the major screens, and there is a couple left on  
22 the back table if anybody needs those, and I just  
23 wanted to make those available to people as well.

24 Calendar of events. This is just  
25 somewhere where we can go can, and we will post

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1 important things to keep people aware of any upcoming  
2 meetings or important dates. You can see the meeting  
3 that we are at right now is up here.

4 And LSN participants and the definition,  
5 and potential parties, and hours of operation. We are  
6 going to be available 24 hours, but there is going to  
7 be where participants will be backing up their  
8 systems, and we will be going out spidering and - for  
9 new information.

10 And so we basically keep the time from  
11 12:00 midnight to 6:00 a.m. Eastern Time as kind of a  
12 --and for lack of a better term, use at your own risk.  
13 You could notice a degradation of performance because  
14 we are spidering or when we understand participant  
15 backup times.

16 For example, when a system might not be  
17 available, we will post that document so that you  
18 would be aware that if you were to click on to  
19 participant document at that time, if you were working  
20 at two o'clock in the morning or something, that it  
21 might not be available.

22 Announcements. We have several groups  
23 here, and just kind of out there right now and just  
24 trying to get a feel for the types of information that  
25 we want to post right now. We have links out to news

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1 releases for the NRC, and it is out there somewhere I  
2 hope.

3 And so this would just bring to you NRC's  
4 home page, and just bring you to the NRC's page for  
5 news releases. The same thing with public meetings.  
6 This page, change documents, is the type of thing that  
7 we hope that participants can use if they have a  
8 document that they are going to rely on, and when a  
9 new document or a revised document is added, it is  
10 added as a new document.

11 So the kind of thing that we wanted to do  
12 was to make it easy for participants to come out and  
13 say, let's see, in the next day how many new documents  
14 has the NRC added, changed, deleted.

15 And nothing has been done currently, but  
16 you could see that we would have an organization, the  
17 LSN accession number, and the title. So you could use  
18 that information to go back into the system and see if  
19 any of the information that you have needs to be  
20 updated.

21 The LSN website links and services, just  
22 a little description of it here, and then here is a  
23 link to the LSN administrator. Document requests and  
24 points of contact. We are still trying to work with  
25 this, and Joe is going to talk a little bit about

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1 this, and I think Dan talked about it, too.

2 And just basically trying to work with you  
3 for making information available that may help people  
4 understand how to -- for example, if you wanted to get  
5 a paper, a copy of a document, we may post a point of  
6 contact here for that type of information.

7 We have a couple of columns for  
8 information here that you can use in trying to work  
9 with you so that you can understand the best way to  
10 make information available to people in the easiest  
11 way possible, and this may be one way to make  
12 information available from one party to another.

13 And then we have another little heading  
14 here for my LSN, which is basically just some of the  
15 things that you can do to modify your personal  
16 settings while using the system. They are pretty  
17 straightforward, and if you wanted to change your name  
18 and e-mail address, and you can see with me being  
19 logged in, my name is showing up here.

20 And then if you wanted to change your  
21 password, I'm sure that everybody has been through  
22 this type of process, and you just put it in, and you  
23 can change your password.

24 Now, when we issue passwords, we have no  
25 way of going and changing it, and what we can do is we

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1 can reset it, and we have the password e-mailed to  
2 you, and it is basically a encriptic alpha-numeric  
3 password, and if you are like me, you can go in and  
4 change it to something that you can remember.

5 It is not Redskins. That is what  
6 everybody guesses with the people in our area. And  
7 then down here we have quick reference links, and it  
8 is linked to a couple of different organizations to  
9 try and make this information available in Part 63,  
10 which we have here, and this is the type of place  
11 where hopefully who use the LSN webmaster now state,  
12 you know what?

13 It would be really helpful if this  
14 information was available as a quick reference and we  
15 can considering doing that, and we try to get all of  
16 the applicable organizations to make sure that the  
17 information is available.

18 And that is kind of what the concept of  
19 portable comes into play, where you can come to one  
20 place and get all the information. Okay. I am going  
21 to move across the top here, and I am going to skip  
22 the advanced search button, and come back to that in  
23 a minute.

24 Jim talked yesterday about the several  
25 systems that we are going to be using, and one of them

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1 is the electronic docket system, or we have a Link  
2 Redocket. Now, we have a little jump off page,  
3 transition page here, to try to explain to you, or to  
4 the users, what the electronic docket is.

5 And then we provide a link out to the  
6 electronic docket and it takes it straight up to the  
7 electronic hearing docket on the LSN website, or the  
8 NRC website.

9 And the same with electronic motions. We  
10 have an e-motion link here, and again just a little  
11 explanation about what an electronic motion here, and  
12 then a link jumps out, the electronic information  
13 exchange system at the NRC.

14 The links are all the potential parties.  
15 We have actually the advisory review panel, and we  
16 have them identified here, and these are just links  
17 out to the best site, and not the LSN site, but  
18 actually the LSN site, and we have a couple of other  
19 ways to get to the electronic hearing docket, and the  
20 electronic information exchange.

21 And log out is just a log out system, and  
22 then we have a help button over here, where the  
23 landing page over here is just a little bit of an  
24 overview of how the LSN help system works, and then  
25 again we click help, and we can see that the local

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1 navigation changed to these specific topics.

2 And so just a general search, which is the  
3 home page search, which I am going to demonstrate in  
4 a minute here, and the advanced search page just gives  
5 you a little bit of information here about the  
6 different ways you can search.

7 Searching fields, and just a little  
8 general information about how to use field searches.  
9 And content search, you just go to the power of this  
10 search system, which is the full text search, which  
11 most people are familiar with.

12 Saving searches, and information about  
13 that, and the search results list, and that is  
14 basically a screen shot and what kind of information  
15 is presented there.

16 And then under the other help banner, we  
17 have the traditional stuff, and regional asked  
18 questions and some of the stuff that we have received  
19 through the LSN webmaster, and we have gone ahead and  
20 created a frequently asked question, and this is the  
21 type of thing that our administrative module will  
22 allow us to do.

23 So when we get several organizations  
24 asking the same question, hopefully we can update this  
25 area and make it easy for people to understand, or if

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1 there is a common problem, this is a good way to try  
2 and alleviate that.

3 File URLs assistance is probably going to  
4 be the trickiest problem, as far as setting this up,  
5 because there are URLs required for the different type  
6 of document types that will be posted.

7 Most people are familiar with PDO, and  
8 Adobe, and PDF, and you actually have to install that  
9 application on to your computer so you have enough PDF  
10 files.

11 And we just have a little breakdown of  
12 what we expected to get from the different  
13 organizations, and then what we have done is just  
14 written a little example of how or what that different  
15 format is.

16 For example, for BDF, we just provided a  
17 little test gauge so you can go out and test your  
18 viewer to see if it is installed.

19 XX So if this image were to come up, you  
20 would know that your viewer has already been  
21 configured, and if it didn't work, then you would go  
22 here and download URL.

23 And we will -- and I expect that Dan was  
24 talking about, and I expect that we will probably work  
25 trainer to trainer. This is the type of thing where

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1 it would just be helpful for somebody to have the  
2 institutional knowledge about if someone can't pull a  
3 document up, possibly a viewer needs to be installed.

4 It is not a big deal, but I just wanted to  
5 make sure that people don't have problems with it.  
6 Okay. The first thing that I want to do here is  
7 basically step into the searching of the system, which  
8 is basically the purpose for it.

9 And one other thing that I wanted to talk  
10 about real quick is you can see over here that we have  
11 help screens, and you will find these everywhere.

12 To me, I think this is really the  
13 training, the key to training, and it is everywhere  
14 that we want you to be able to have information  
15 available on what am I doing here.

16 And so if you click on this, it just  
17 brings up information, and when I talked yesterday  
18 about the new administrative module, these are the  
19 kinds of things that people may say, well, I want to  
20 understand exactly how that works, or what is the best  
21 way to do it.

22 And we can go in there and actually enter  
23 examples into these little help screens, and hopefully  
24 guide users through each area of it. But I am going  
25 to go down here to the content search and I am going

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1 to issue a search for high level radioactive waste.

2 Now, this is the results stage, and we  
3 have 61 documents in the LSN right now, and you can  
4 see that 61 came out, and I feel pretty good about  
5 that, because hopefully most of these things have  
6 something to do with high level radioactive waste.

7 And you can see -- and let me just walk  
8 through the different things here. Again, if you hold  
9 the button over the titles here, it will tell you what  
10 they are.

11 I am going to demonstrate this in a  
12 moment. This is the relevancy ranking, and the system  
13 actually said, okay, high level radioactive waste, and  
14 I am going to give this document 90 percent, 90  
15 percent relevance to that particular search.

16 The source as to who actually posted the  
17 document on their server, you can see that with that  
18 particular search, we got the NRC, Nye and Clark  
19 County, the Department of Energy, and Lincoln County.

20 We just placed the little icon there and  
21 with a quick visual, you can see where the documents  
22 are coming from and we actually found all four, one  
23 right after the other, in that first search.

24 The title of the document that was posted  
25 by the participant on the server was the title that

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1 they had for the document, and the system also  
2 generates based on your search a summary of the  
3 document, and it is called an intelligence summary,  
4 and it can be up to 15 lines.

5 And based on what you search for, it tries  
6 to develop a summary of the document and posts it  
7 there for you. Now, what we have are five different  
8 ways to get this document.

9 We have just done this because there is  
10 some value to each of them, and at the beginning we  
11 are trying to balance functionality versus ease of  
12 use. Different types of users, and you just try to  
13 look for different ways to accommodate.

14 And if you scroll down here to this  
15 document right here, and if you click on the document  
16 title itself, it brings up the source documents. The  
17 LSN is a full text search system for predominant  
18 reasons, and so this is the full text version that we  
19 placed out there for participants, and contrast that  
20 with the image version.

21 This is the PDF document for the PDF  
22 viewer that came up, and then you can read through the  
23 document. Adobe Acrobat is really nice, and I used to  
24 fit this and it makes the text visible and as large as  
25 possible, so that you can scroll down through it.

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1           You will see down here at the bottom of  
2 the screen there is a related document list, and what  
3 the system is doing is saying that you are interested  
4 in these, and these may be things that I found are  
5 related to it.

6           So if you are interested in these as well,  
7 you can click on those and pull those up. If you go  
8 back to the search results page, there is several  
9 buttons that were here, and again if you hold your  
10 mouse over the button, an inquiry-help will come up  
11 and tell you what they are.

12           Let me just walk through each one of  
13 those. This page is the highlighted content of the  
14 document. Now, this is the contents the way it is  
15 entered into the full text index, and so it strips all  
16 of the carriage returns, and all texts, and a couple  
17 of benefits of this -- and some people may like it and  
18 some may not.

19           It will be relatively fast because it is  
20 straight text. There is some CPU work that we have to  
21 do to put the document back together and present it to  
22 you, but it is pure text, and so it is not a large  
23 document, like the 7 or 8 meg PDF file, for example,  
24 or something like that.

25           And then obviously the text is highlighted

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1 and bolded for you, and capitalized, so you can  
2 quickly scroll through and see based on your search  
3 where those terms show up.

4 Now if you wanted to go back to the source  
5 document from here, you would use this button, and it  
6 just says the document, and that is the same  
7 functionality as clicking on the title, but we have  
8 also put a button here where you can go from viewing  
9 the document to the ASCII text, without having to go  
10 back to the results screen.

11 MR. PUY: Excuse me, but the related text  
12 documents down at the bottom of the screen there, are  
13 those based on the headers?

14 MR. SCHMIT: On that document. So the  
15 content of that document uses the content of that  
16 document to offer up other documents that are labeled.

17 MR. GRASER: I think to elaborate on that  
18 just a little bit, in essence what the system is doing  
19 is building a like document search on the fly, and it  
20 is giving you its own suggestion or recommendation of  
21 other documents that are like the other document that  
22 you pulled up on the list.

23 MR. SCHMIT: E-8, and viewing the header  
24 field information for this document. So if you click  
25 on that, the Department of Energy does a comprehensive

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1 job of cataloging their documents, and you can see  
2 that there is a lot of information here, and the  
3 authors, and package IDS, and related documents, these  
4 are all the fields that were offered in the LSN.

5 And all this information can be used for  
6 a search, and I demonstrated that as well. I am going  
7 to demonstrate a Department of Energy document in a  
8 minute. I just wanted to talk to you and say you can  
9 see the way this button is graded out here, because  
10 there is some documents that have images posted, and  
11 some don't, and I will show you a DOE document.

12 And these are images, and because this is  
13 a PDF file, there is no images, and you can see that  
14 the button is (inaudible), and so if the functionality  
15 isn't there, we don't make it available as a button.

16 Let me just go back and show you these  
17 other two fields that we have with your LSN and  
18 participant accession number on the home page. Let me  
19 just show you how you could possibly reset it.

20 And on the result screen, and let's go back to that  
21 NRC document screen, you can see that the LSN  
22 ascension number is listed here, and the participant  
23 ascension number is listed here, as well as the  
24 document date.

25 But if, for example, you knew the LSN

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1 ascension number -- and I am just using the copy here,  
2 but if you knew the ascension number, and maybe the  
3 license application is the document that you are going  
4 to constantly refer to, you could just use the  
5 ascension number, and go and pull that document up.

6 And the same thing with the participant  
7 ascension number, and just quickly go to the document,  
8 and like I said, I think if it is a document that you  
9 are constantly using, we may actually put that on the  
10 quick reference list, but it is just another way of  
11 getting to the information.

12 Okay. Let me go to the advanced search  
13 page. All the fields for searching are available on  
14 this page. Let me just talk about the health buttons,  
15 for example. These are just good examples where we  
16 have to provide specific information. Like this is  
17 the document day field.

18 And it just explains how if you leave both  
19 the from and to dates empty, you are not limiting it  
20 to dates. If you only enter something on the from  
21 date, it is from that date forward.

22 It is just trying to give you more  
23 information about how to use it, and specifically how  
24 to enter the information into a field. Another good  
25 information or another good help button is the

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1 information sources, where we tell you basically what  
2 information sources mean, as well as how you can use  
3 the select all buttons down here at the bottom to go  
4 ahead and select who you want to issue the search  
5 instead.

6 So you have seen the advance search page,  
7 for example, and what I am going to do now is issue a  
8 search where I want environmental in the title, and I  
9 want the content to have high level radioactive waste.

10 If you remember when I entered the search  
11 before, we got 61 results. Well, now because I have  
12 banded those two, I wanted environment, which is right  
13 here in the title, and high level nuclear waste, as  
14 radioactive waste, as the content in the document, and  
15 these two documents became available.

16 And because they were banded, it is kind  
17 of refining the search, and trying to get more into  
18 the information that you are interested in finding.

19 Now, if I issued that query and say, wow,  
20 this awesome, and I want to continue to do searches  
21 like this so that when new documents are added, I will  
22 find information that is related to this.

23 So if I like that, then I can click the  
24 query button, and up comes a query name, and I will  
25 enter title and content search, and that is just the

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1 name that you want to give it, and make it available  
2 to people.

3 And so I like lawyers, and so I am going  
4 to go ahead and share it with OGC, and I hit save.  
5 Now you can see the way that we broke our organization  
6 down into NMSS, and technical group, and OGC, the  
7 lawyers.

8 And that is just again, like I talked  
9 about yesterday, some functionality that we have, and  
10 that is the kind of thing that we would work with you  
11 if your organization was interested in doing something  
12 like that, and we would set that up for you.

13 So this is what a safe query looks like,  
14 and I have the one that I just saved, which is right  
15 here, and which is my personal query that I staged,  
16 and I also shared with OGC.

17 And also my organization saved queries.  
18 Now, I am a member of -- I am not a member of OGC, but  
19 if I was, it would only show up here because there is  
20 no reason to have it show up in both places.

21 But if you click on that, it basically  
22 issues the search, and you get the same results that  
23 you got when I have the information in that report.  
24 Now, what you could also do is if you saw a query out  
25 there that was pretty good, but you wanted to sort of

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1 refine it, and maybe you could share that one out  
2 there because you found some more information, and  
3 just click on this copy, and you get a new name, and  
4 you can share it with someone and then you can file it  
5 away.

6 Now, let me just show a couple of more  
7 things here. I am going to issue a search for the  
8 content of tough rock.

9 This feature over here, if I open the  
10 mouse, and use check boxes to select documents for  
11 refining the search parameters, basically what you are  
12 saying is that this document is exactly the type of  
13 information that I am interested in, and I am going to  
14 submit it as a search, and see if there is any other  
15 documents.

16 But really what you could do is you could  
17 issue two documents, for example. These two are right  
18 to the point, and I want to issue those two documents  
19 as a search through the repository, and so you click  
20 the check box, and you hit suggest more, and you are  
21 basically submitting those documents as search  
22 criteria.

23 And it will come back with the results  
24 based on those two documents. And you will see that  
25 the results are actually in this document, and my

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1 original search was on tough rock, and I took two  
2 documents that came up from the results, and obviously  
3 that is a correlary that they carry.

4 So the contents search of the system we  
5 really can't -- I don't think emphasize enough, and  
6 really that is the power of the system. If you were  
7 reading another document, for example, off the  
8 internet, off an internal report, and just using  
9 Windows cut and paste.

10 And I am going to highlight this entire  
11 paragraph, and I am just going to use a right click,  
12 and I just want to copy the entire text. I am going  
13 to submit the entire block of text -- and you can see  
14 the whole thing is in here now as a search.

15 And so I have submitted an entire  
16 paragraph on to the search, and that is really where  
17 the power of this system comes into play. We are all  
18 very familiar with using a word or two, but when you  
19 start giving this thing a lot of information, that's  
20 where you are really going to get a lot of benefit out  
21 of it.

22 Now, you can see the document where I cut  
23 the paragraph from was 82 relevance to all the others,  
24 which makes sense, because of the document that I cut  
25 the paragraph from.

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1           But a feature, and as you start to use the  
2 system, and you just want to be aware that a contents  
3 search is really where you are going to find a lot of  
4 value in the system.

5           MR. PUY: Matt, where do those paragraphs  
6 come from? Is that what you put, or --

7           MR. SCHMIT: No, what we have here, and  
8 there is a couple of different ways to do it, but what  
9 we have turned on is what they call intelligent  
10 summary. The system, based on your query, develops a  
11 summary of the document to your query.

12           So, for example, when I did tough rock, it  
13 takes the document and tries to create up to a 15 line  
14 summary of the document based on a search of tough  
15 rock. Now, this summary up here is based on that  
16 entire paragraph that I had.

17           Let me show you one more thing here, and  
18 go back to my tough rock search.

19           MS. JOHNSON: And (inaudible)?

20           MR. SCHMIT: You are giving it less  
21 information, and so it would be a little bit  
22 different. We only have 60 documents in here. Now,  
23 the Department of Energy has done a really good job in  
24 trying to provide users alternative ways to view their  
25 information.

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1                   This is a DOE document that I did a search  
2 for touch rock, and if I click on the title, what  
3 comes up is the text burden of the document that was  
4 submitted to the LSN for searching.

5                   Now, because these are test documents,  
6 there is a banner on the page, just letting users know  
7 that this is a test document for testing purposes.

8                   But as you are reading through this  
9 document, for example, because this is pure text, you  
10 will notice that there is a little page line break  
11 that they implemented, and they just did this visually  
12 to let you know where each page breaks in this test  
13 document.

14                   And as you scroll down, if you got to an  
15 area where you were kind of scrolling through and you  
16 said, you know, I want to see what is exactly there,  
17 and I want to see the actual image.

18                   And you can actually pull out the page of  
19 that document, and you can view verbatim what is on  
20 that piece of paper. Now, another really cool feature  
21 that they put on here to make it easier for you in  
22 several respects that are on this slide, if you hold  
23 or click on this, it is an image displace selection.

24                   And what this does is allow you to -- this  
25 is 208 page document. My modem at home gets like 30K

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1 and so 208 pages, I really might want to spend the  
2 whole time paging through that.

3 So what they have done is that they have  
4 made this little applet available to you so you can  
5 say, well, I want to see page 10 through 20, for  
6 example, and then you can click on the estimate  
7 button, and it tells you how big the piece is that you  
8 are going to suck down, and how long it is going to  
9 take on a 56K modem.

10 And then you can decide do I want to sit  
11 here for 3 minutes and wait for that, or do I want to  
12 reduce it down to five pages, and you can use it to  
13 your benefit without actually going in and investing  
14 time in it, and you can always use the stop button  
15 obviously.

16 So if you were there, you could just click  
17 the images. Now, I was down -- and you could see that  
18 I went from page 10 to page 20, and so the first page  
19 of this document is going to be page 10.

20 And it comes up in PDF, and you can just  
21 scroll right through the document page by page, and go  
22 through those pieces. And then you saw the common  
23 features that are available for Adobe Acrobat printed,  
24 and save it to your hard drive, and all that good  
25 stuff.

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1           They did a really nice job in making the  
2 information available to users in many different ways,  
3 and one last thing that I just wanted to mention is  
4 that I got 39 hits on that search, and we display 1  
5 through 25 on the results page.

6           So if you wanted to go to number 26, you  
7 would use this next page arrow to get the additional  
8 results. That's just another feature that I am not  
9 trying to overload you with data, and also try to get  
10 other results back to you as quickly as possible.

11           And I think that's all that I wanted to go  
12 to, and so I think I will take questions now.

13           MS. JOHNSON: Just a really quick  
14 suggestion. If you need six hours of update time or  
15 down time, or whatever you called that, because of the  
16 time difference and when people work, and the fact  
17 that there are people who have other jobs, maybe it  
18 would be better to go like 1:00 in the morning until  
19 7:00 in the morning, because if you start at midnight  
20 on the East Coast, it is going to be 9:00 here, or to  
21 figure out some way to have that work.

22           MR. SCHMIT: Yes, absolutely. That kind  
23 of information is always helpful, and I remember that  
24 we were discussing that, and thinking, well, that is  
25 nine o'clock, and some people could be putting in some

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1 later hours on the West Coast, and so we wouldn't want  
2 to -- and then of course we have the same problem here  
3 on the East Coast, and so there is obviously some  
4 happy medium that we both could come to.

5 MR. PUY: Matt, what is the length between  
6 the (inaudible) guidelines and all the header fields,  
7 and researching here? Why do you need that title, and  
8 how are the rest of those header fields linked to it?

9 MR. SCHMIT: I can never get this  
10 straight. Do the guidelines have the requirements in  
11 Table A  
12 of --

13 MS. TREICHEL: It is a design requirement.

14 MR. SCHMIT: They are separate than the  
15 guidelines?

16 MS. TREICHEL: In Table A?

17 MR. SCHMIT: Right.

18 MS. TREICHEL: It is a design requirement.

19 MR. SCHMIT: Are they in the guidelines?

20 MS. TREICHEL: No.

21 MR. SCHMIT: No. So there is no linkages  
22 to guidelines?

23 MR. GRASER: The guidelines, actually  
24 there is one section there that is talking about the  
25 generation of an XML header, and that does include

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1 information on some of the fields.

2 But the bibliographic fields, and the  
3 listing of them, is included as an attachment to the  
4 baseline design requirements document.

5 MR. SCHMIT: What we should probably do is  
6 where there are guidelines, is to add another title  
7 bar input design requirements, and then obviously have  
8 Table A, which is a field length, values, formed out  
9 to a numeric date field.

10 And then also Margie has put together a  
11 really nice description of the fields, and what types  
12 of information goes in there. But we could probably  
13 -- what we probably should do is put that out  
14 underneath the guidelines.

15 MR. GRASER: Since this is only your  
16 second-and-a-half day on the job, the bibliographic  
17 header structure for licensing -- the old licensing  
18 support system that was carried over for the most part  
19 into the LSN were the results of the technical working  
20 group that was established by the LSN and the LSSARB  
21 at that point in time.

22 And the bibliographic fields that were  
23 developed were developed and brought back by the  
24 technical working group, and they were voted upon by  
25 the ARP as thou shalt implement this as the consensus

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1 opinion, and what the graphic header would look like.

2 And that is what was implemented into our  
3 design. The bibliographic fields, when you go into  
4 the table, it will in essence reflect that there are  
5 only about four fields that are mandatory fields.

6 You have got to have a participant  
7 ascension number, and you have got to have the LSN  
8 ascension number, and two other fields that we are  
9 saving right now for later on.

10 Then there are perhaps an additional 5 or  
11 10 fields, that if a party has captured that  
12 information yet, and information is available in the  
13 party's record system, and then that information must  
14 be made available via the LSN.

15 And the balance of the fields of the  
16 fields are optional fields. And if you don't capture  
17 that particular type of information, then you have  
18 data put into it, and you don't even have it in your  
19 own internal record system, and therefore there is  
20 nothing that you can pass forward to the licensing  
21 support network.

22 And an example of that is going back to  
23 the use of the two-way records status indicator from  
24 the Department of Energy's records management system  
25 at that point in time.

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1 Other parties who don't have two-way  
2 programs, and they don't have two-way status  
3 indicators, and they don't have that field, and their  
4 documents won't have an indicator for that.

5 But in the DoD record system that field is  
6 there and that helps you understand the document that  
7 has been generated under the QA standards and so  
8 forth.

9 So for the Department of Energy to capture  
10 that number for the other parties, we didn't capture  
11 that number simply because they didn't have two-way  
12 programs. And that is the way that bibliographic  
13 header structure was put in place.

14 Once it was put in place, again I just  
15 incorporated in the guideline materials, and picked up  
16 almost in its entirety from what was quoted back in  
17 1995.

18 MS. YOUNG: Matt, a question. What is the  
19 best way to copy a paragraph, or what is the best  
20 version of the document to use to copy a paragraph,  
21 and a document used to retrieve in a research and turn  
22 into a Word Perfect or a Word document?

23 MR. SCHMIT: The system would usually  
24 identify where you can or can't. For example, images,  
25 you can't cut and paste, and your mouse won't let you

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1 do it. But any of them are best. Any of the PDF  
2 files are always formatted, and so it is easy to see  
3 the formatting in the PDF files. Like, for example,  
4 the NRC document in the Department of Energy.

5 And if you click on the title of the  
6 document, that version, or that -- but then that  
7 highlighted ASCII text version, you can use that, but  
8 the only problem is that it is all in one stream, and  
9 so you have got to be more fancy with the mouse.

10 But if you click on the title of the  
11 document, you will be able to cut and paste any of the  
12 text that you find in there.

13 MS. YOUNG: So the (inaudible) --

14 MR. SCHMIT: There are three flavors of  
15 the PDF, and the PDFs we have here are cut and  
16 pasteable, and they are image with text. I have not  
17 seen on the LSN yet any pure image PDF files.

18 MS. YOUNG: And in the dialogue boxes that  
19 you show there, there are also EDF compliant?

20 MR. SCHMIT: Yes, Section 508, exactly.

21 MS. YOUNG: And people can't see to be  
22 able to know exactly what the individual icons, and --

23 MR. SCHMIT: If you go into the alternative  
24 document, which they call alternative text, and so  
25 when the screen leader goes by, it will say or tell

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1 you what each button is, and it will actually read  
2 you know, like we had e-docket, and it will say length  
3 of the electronic docket, and that is what the screen  
4 will say.

5 And the last thing that I just wanted to  
6 do real quick is just acknowledge a couple of people  
7 that have been a lot of help up to this point. Harry  
8 Lee and his staff from the Department of Energy have  
9 done a great job working with us, and getting things  
10 to work.

11 Scott Brouse from the NRC OCIO office and  
12 contractor support has gotten the website up, and been  
13 a lot of help working with us. Larry Bradley, AT&T is  
14 the program manager for the LSN.

15 Derek Weaver is the technical project  
16 manager. Dave, is he here? Dave is in the back of  
17 the room, and he is the system architect for the LSN.  
18 Jason Pitts, who was a lot of help, is he here? Jason  
19 was a lot of help in getting his documents up and  
20 working with him.

21 And Nye and Clark Counties we are starting  
22 to work with, and they are starting to give us a lot  
23 of good feedback on some of the system -- for example,  
24 the header generator, and header generator system that  
25 Joe will be talking about next.

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1                   CHAIRMAN BATES: Thank you, Matt, and let's  
2 take about a 15 minute break, and be back by 10:45,  
3 and we will proceed from there. I hope to finish by  
4 noontime today since we moved one of the presentations  
5 to yesterday.

6                   (Whereupon, at 10:21 a.m., the meeting was  
7 recessed, and resumed at 10:43 a.m.)

8                   CHAIRMAN BATES: The next presentation this  
9 morning will be from Joe Turner of the NRC staff, and  
10 he is going to discuss Small Collection Automation  
11 process. Joe.

12                   MR. TURNER: Thank you, Andy. My name is  
13 Joe Turner, and I work with the NRC, and the LSN team,  
14 and my title is auditor and I also deal with systems  
15 administration that Margie referred to. The first  
16 slide talks about -- we put together a quick start, a  
17 one page that we gave to Jason and to other  
18 participants to (inaudible) and connect it with the  
19 LSN.

20                   The first area covered is the XML header  
21 generator, also known as the XML management system.  
22 There were a couple of changes to the system over the  
23 last or three weeks ago or so, and I had the  
24 opportunity to put some data into the system, and I  
25 made some recommendations, and we set forth or added

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1 some corrections and enhancements to the system.

2 Some of them are -- we have four fields  
3 that are mandatory and so we tried to highlight those  
4 fields that are mandatory and put into the system, and  
5 when we spidered (phonetic) the system and pulled down  
6 a header in the XML files, we checked to make sure  
7 that those four fields are available.

8 If not, as far as auto process, we will  
9 check, or I guess note the XML file and then update  
10 the contact and content, and how we can correct the  
11 XML file.

12 The next bullet is about setting up the  
13 web server and website that Jason presented yesterday,  
14 and last year we talked about a high speed internet  
15 service provider, and that's one alternative, and also  
16 setting up a server in-house.

17 The LSN runs on Microsoft IS, and a lot of  
18 participants are using the UNIX operating system, and  
19 using it on the job to communicate properly with the  
20 software.

21 Some of the protocols being used to  
22 communicate are FTP and the ACPP, and those protocols  
23 are -- when you set up a webserver, they are normally  
24 available (inaudible).

25 The next is talking about creating the

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1 server directories, and we have a directory structure  
2 that the Spider is familiar, and we need assistance to  
3 set up on their service, and the first record is the  
4 header directory, and that's where we name the  
5 directory headers, and the spider recognizes that, and  
6 underneath there you put the XML file.

7 At that point, you can break out however  
8 you want the directory (inaudible), but we prefer that  
9 you don't get too deep into the level of directories,  
10 and often you will find that will cause you problems  
11 in entering data, and having more information to add.

12 Some examples, people will use dates, and  
13 on the document server, the date is called 1990, and  
14 you put the header under the 1990 directory, and it is  
15 1983, and you put in that director, and those are some  
16 of the examples that you might want to think about.

17 The configuration for the fire wall, and  
18 basically using FTP, the spider needs to have a user  
19 name and password, and we need to get that from you so  
20 that when we come to the server and spider, we would  
21 pass along the user ID, and password, and the spider  
22 would come in and crawl around the directories and  
23 that is the only configuration -- I mean, there are  
24 other configurations from an IT perspective, but that  
25 is the main thing that we would need.

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1           Verifying the access to the website, and  
2           that is the IT portion of the protocol, and which  
3           allows when you click on the title, and it would go  
4           out and pick up the document from the server, and that  
5           is where we would verify the website is connecting to  
6           the ACPP.

7           And we also want to make sure that -- and  
8           this is normal IT, that the files would only have  
9           access from the people who can change the files or  
10          gain access to made any modifications.

11          And at this point, some of the expansions  
12          we have had, is that we have worked on some of the  
13          header data, and I think it was important in the last  
14          conversation in talking about Table A, and an  
15          understanding of the fields to require putting in the  
16          description.

17          And in Table A, each field gives you  
18          examples, and allows you to understand what we are  
19          looking for in those fields, and obviously if you have  
20          any questions you can contact us.

21          For example, if there is an image field,  
22          and I have seen a couple of cases where the  
23          opportunity was zero, and I think the definition for  
24          image is the number of pages, and so it is not an  
25          image, per se, file, but there may be 20 or 30 pages.

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1 So that is something to understand and the opportunity  
2 for that.

3 And yesterday I found out, and I didn't  
4 know that Jason was using an ISP provider, and so we  
5 do know or we knew that there were ISP providers, but  
6 (inaudible) and so we are now connected to an IT, and  
7 it makes you feel a little more comfortable that we  
8 can do that, and exercise that practice.

9 And then communication, and I think that  
10 is the biggest thing, and just trying to keep  
11 communication open. Sometimes, for example, someone  
12 will set up a directory and put a header, a spider for  
13 a header, and (inaudible), and so it takes a little  
14 bit of time is the simple fact.

15 But it takes a little bit of time  
16 (inaudible), and point of contact I will talk a little  
17 bit about, and being a systems administrator, I will  
18 have access to an application that will allow you to  
19 enter in the point of contact, name, and the telephone  
20 number, and something that I have to work with you  
21 guys to get the proper names.

22 Another thing that I thought about  
23 possibly is in the point of contact phase that maybe  
24 if you have a page on your website, and you could link  
25 to it, and then you could adjust to it if you need to,

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1 or perhaps alter it somewhat, and that would be  
2 another option.

3 Change the document lists, and the system  
4 or the spiders are going to check for add, change, or  
5 delete, and (inaudible). And the system that  
6 generates any document change is going to put it into  
7 the administrative system, and it is going to allow me  
8 to -- what it is going to do is that under the -- it  
9 will notify the LSMA of any change in documents.

10 If I recognize something that we have not  
11 been identified on, then I will contact you and find  
12 out what is going on, and verify what is up with the  
13 change, and resolve the problem. And I will have the  
14 ability to turn that one off.

15 So I will verify the list of changed  
16 documents, and then I will turn them on at night so  
17 that it shows the list of them, and without avoiding  
18 an automatically generated list the next morning  
19 (inaudible).

20 Again, coordinating the system hours of  
21 availability, and scheduling outages, that is  
22 something that we will have to work towards. And we  
23 need to keep in mind that at some point after point of  
24 contacts and a way to accomplish these.

25 The same goes for the authenticating of

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1 the extra copies. I don't think we need to talk too  
2 much about the auditing process. Verifying the  
3 integrity of the collection, it will set up a portion  
4 of the system that has an auditor, and the software  
5 will go out and check on a routine basis the  
6 opportunity for performance and things that are  
7 obvious.

8 (Inaudible) for collections and check and  
9 make sure that the documents have not been changed,  
10 and we use a MD-5, sort of a technical term, and it is  
11 like we encrypt the files, and if any changes have  
12 been made to it, then that encryption will be changed,  
13 and we will be able to tell from the encryption that  
14 it has been changed.

15 It is kind of hard to explain without  
16 going into too much technical detail. And then it  
17 only reports on that, if there has been an encrypted  
18 change.

19 Also it will check for add change, and  
20 will do a check for add change, and for deleted  
21 records, and also it will be looking for header files,  
22 and pointing to a document and the document is not  
23 there, and something like that.

24 That is an example of the things that it  
25 will be looking for, and it will be on our system, and

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1 we will have the ability to check for things of that  
2 nature, and again being on that field, we would be  
3 able to solve the problems.

4 And a couple of the changing of documents,  
5 and we have been notified (inaudible), and then we  
6 would be aware of it.

7 And turning to the LSN system performance  
8 and the participant performance of the service is  
9 pretty much the same process. We have software and  
10 web trends that will provide some of the information.

11 And we will also have a website folder and  
12 what it does is that every so often it will go out to  
13 your site and make a connection, and then disconnect,  
14 just to make sure that your site is up and running and  
15 fully available.

16 And so if there is any down time, it will  
17 be noticed, and let's say you have been down for an  
18 hour, it will contact you and find out (inaudible) and  
19 if it is an (inaudible) outage, or having problems.

20 Also, based on how many people are on the  
21 portal (inaudible), and then the LSN website  
22 specifics. That will be essentially (inaudible) that  
23 we use, and that is where the log files come in, and  
24 the server, or the web server can track each  
25 transaction that goes on, and that information is

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1 taken into web trends, and there will be graphs and  
2 things on how often people go into the system, and  
3 what is the stay and to manage the system that way.

4 And we currently don't have a spot  
5 available on the (inaudible) footers, but we would  
6 probably place them out there (inaudible), and  
7 particularly in the (inaudible).

8 And then the last issue is where it just  
9 talks about basically resolving performance issues,  
10 and being in contact with the point of contact, and if  
11 it is an IT person, or whoever the contact might be.  
12 That's really all I have. Any questions?

13 CHAIRMAN BATES: If there are no questions,  
14 then we will proceed on to the next presentation.  
15 Matt.

16 MR. SCHMIT: Some of the information that  
17 Joe just talked about, we are going to make available  
18 on the site, and we also have CDs up here, and the  
19 technical quick start that he is talking about is just  
20 this little one page PDF file that literally tells you  
21 how to set it up, and the directors, and what kind of  
22 service is running.

23 And basically a little one page document  
24 that tells you basically how to get started. So we  
25 have a CD with this and it talks about when you are

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1 using the header generator and knowing what  
2 information to put in the fields, and it adds  
3 descriptions on this CD, and we will put it up on the  
4 website also.

5 CHAIRMAN BATES: Thank you. Dan.

6 MR. GRASER: Matt, you may want to just  
7 clarify that you have some copies that are available  
8 here, and also that it will be on the website.

9 MR. SCHMIT: Yes, I have got a handful of  
10 them here if anyone wants one.

11 CHAIRMAN BATES: Margie, you have the next  
12 session. The next presentation is going to be with  
13 respect to public access via the NRC and DOE public  
14 document rooms and providing document access to public  
15 access. Margie.

16 MS. JANNEY: I am Margie Janney with the  
17 NRC Home Page Licensing Work Panel, and I am going to  
18 spend a few minutes talking about our outreach  
19 programs to the model librarians, and also public  
20 access to our NRC public document rooms.

21 Aside from training initiatives that Dan  
22 talked about yesterday, additional training  
23 initiatives (inaudible) and how to provide them  
24 assistance in using the LSN.

25 This initiative includes an outreach

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1 program to librarians in the State of Nevada. I met  
2 with the Nevada State Librarian, Sarah Jones, for an  
3 opportunity of giving local librarians overview  
4 training on the use of the LSN.

5 We (inaudible) the Nevada State Librarian  
6 System's annual meeting as a forum for presenting a  
7 workshop to State Librarians to explain how their  
8 constituents can employ State Library internet access  
9 to use the LSN.

10 The State Library suggested that the LSN  
11 staff present a workshop at an annual Nevada Library  
12 Association Meeting. She also suggested presenting a  
13 workshop or two at the cooperative library  
14 consolidated network meeting, where people from Nevada  
15 colleges and universities, and the Nevada State  
16 Supreme Court library would likely attend.

17 The rural libraries in Nevada all provide  
18 publicly accessible computers, and the planned LSN  
19 training compact disc that Dan spoke about yesterday  
20 would be helpful in explaining the LSN system of  
21 operation.

22 The mission of the NRC public document  
23 room with PDRs is to help the public find and obtain  
24 NRC information in the Agency's extensive electronic  
25 and microfiche collection.

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1           Members of the public interested in  
2 detailed technical information about nuclear  
3 facilities and other NRC licensing would find the PDR  
4 a comprehensive research center for NRC public  
5 documents.

6           The PDR is staffed by technical  
7 information and documentation specialists, and its  
8 holdings are focused on unclassified documents related  
9 to the NRC'S licensing and rule making activities, as  
10 well as documents for the regulatory activities of the  
11 former Atomic Energy Commission.

12           The public may access the LSN and  
13 electronic hearing docket from terminals for the PDR  
14 without charge. Technical representatives can assist  
15 you in identifying and retrieving NRC information from  
16 various sources and formats, including information in  
17 the LSN and EHD.

18           The PDR staff can help with conducting  
19 searches for patrons. However, regular users are  
20 encouraged to learn to search from the databases  
21 independently.

22           The librarians can perform searches on the  
23 LSN and the EHD and generate printouts on request.  
24 Printouts can be held for pickup or sent by mail, and  
25 either of them is fine.

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1           Searches can also be downloaded and set as  
2 ASCII tech files by e-mail, and the PDR staff can  
3 order copies of documents. Off-site users may place  
4 orders for documents with the reference staff.

5           A reference librarian will verify the  
6 citation and give the PDR copy service contractor the  
7 order for copies of documents. On-site users may also  
8 place orders directly with the compuserver.

9           And a copy service contractor is available  
10 on-site to copy PDR material. Fees and turn-around  
11 times vary depending on the amount and kind of  
12 material.

13           The contractor can copy most documents in  
14 the PDR and can also put documents. Copies can be  
15 picked up by the user or a designated courier, or  
16 copies can be sent by mail or by express service.

17           Copyrighted documents are also available  
18 for viewing but as we all know restrictions on copying  
19 apply.

20           This is a chart of the copy fees and  
21 depending up on the type of immediacy that you want  
22 the copy, and the cost for the turnaround time. The  
23 next chart is the turnaround time that is accessible  
24 to you, and if you want a little bit of a rush, this  
25 is the cost, and depending on what you want of the

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1 media that you want all of our documents copied from.

2 Payment for document reproduction services  
3 is made directly to the contractor, and they will  
4 accept cash, VISA, Mastercard, or Discover. You can  
5 also submit an order for customers who wish to pay by  
6 check, and the PDR customer will inform the customer  
7 of the total charges for the order and a check may be  
8 submitted directly to the contractor.

9 Upon receipt of the check the subject  
10 order will be delivered as requested. Repeat  
11 customers are encouraged to establish a deposit  
12 account and an invoice will be issued with each order.

13 Customers who order frequently and have a  
14 deposit account will be issued a monthly statement.  
15 This monthly usage report will be mailed showing the  
16 customer name, billing period, and status of account,  
17 and use of activities for that period.

18 Service will be stopped for customers with  
19 a zero amount in their deposit account. The PDR is  
20 located at the NRC headquarters in Rockville,  
21 Maryland, and it is open to the public between 7:45  
22 and 4:15 Eastern Time, except for Federal holidays.

23 And the building is a secure building so  
24 that visitors to the PDR must obtain a visitor's badge  
25 at the guard station in the lobby.

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1           They also provide telephone service from  
2           8:30 a.m. to 4:15 p.m. And all the information is  
3           also available through that. Any questions? Sharon  
4           Sevigny will now talk about the DOE public reading  
5           rooms.

6           MS. SEVIGNY: Good morning. My name is  
7           Sharon Sevigny, and I am (inaudible) contractor on the  
8           (inaudible) project. I was asked to (inaudible) to  
9           (inaudible) located in the (inaudible), which is  
10          located (inaudible) center.

11          Based on LSN rulings, we have to have  
12          public access available at our facility, as well as  
13          other DOE reading rooms within the States. The other  
14          reading rooms for the Department of Energy (inaudible)  
15          general area (inaudible), and to allow public access  
16          to allow you come in for researches on the LSN. This  
17          just gives you a list of locations locally, and at DOE  
18          headquarters where public access is available.

19          The official DOE reading room is the one  
20          on top there, and (inaudible) reading room. And  
21          lastly we need to show -- and I apologize if this is  
22          repetitive (inaudible), as well as in the university  
23          system, and I would just add (inaudible). Are there  
24          any questions?

25          CHAIRMAN BATES: Thank you, Sharon.

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1 MR. GRASER: Sharon, if I could just ask  
2 would it be possible to get a copy of your slides?

3 MS. SEVIGNY: Yes.

4 MR. GRASER: I really appreciate it. Thank  
5 you.

6 CHAIRMAN BATES: I guess that is about the  
7 end of our scheduled items for discussion for both  
8 today and yesterday. I would throw it open to see  
9 whether there are any additional thoughts on the part  
10 of the members of the panel, and if not for the panel,  
11 then for the members of the audience who would like to  
12 add or suggest items for your consideration in  
13 additional meetings. Panel.

14 (No response.)

15 CHAIRMAN BATES: Audience?

16 (No response.)

17 CHAIRMAN BAES: In that case, thank you  
18 all. Matt.

19 MR. SCHMIT: I just wanted to offer, too,  
20 if there are any technical representatives here that  
21 wants to get into any in-depth discussions on how the  
22 LSN works technically, or about any of the slides, I  
23 am willing to talk one on one about any PDR numbers  
24 that might not be up and other things that people  
25 might be interested in, just let us know.

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1                   CHAIRMAN BATES:  Dan advises me that we  
2                   expect to have a transcript available in about two  
3                   weeks.  We will get the slides and transcript up on  
4                   the LSN system.  Thank you.

5                                 (Whereupon, at 11:10 a.m., the hearing was  
6                   concluded.)

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