

**Official Transcript of Proceedings**  
**NUCLEAR REGULATORY COMMISSION**

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                              Evening Session

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Location:               Fulton, Missouri

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UNITED STATES OF AMERICA

U.S. NUCLEAR REGULATORY COMMISSION

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PUBLIC MEETING TO DISCUSS ENVIRONMENTAL SCOPING

PROCESS FOR PROPOSED CALLAWAY PLANT UNIT 2

COMBINED LICENSE APPLICATION

\* \* \* \* \*

WEDNESDAY,

FEBRUARY 18, 2009

\* \* \* \* \*

FULTON, MISSOURI

\* \* \* \* \*

The Public Meeting convened at Westminster College, Champ Auditorium, 501 Westminster Avenue, Fulton, Missouri 65251 at 6:00 p.m.

Present on behalf of the Nuclear Regulatory Commission:

Gregory Hachett

Chet Poslusny

Bruce Olson

Nilesh Chokshi

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

(6:00 p.m.)

I. WELCOME/PURPOSE OF MEETING

MR. POSLUSNY: It looks like we're right on time. It's six o'clock and with that I would like to say on behalf of the United States Nuclear Regulatory Commission, the NRC, I would like welcome all to this Environmental Scoping Meeting related to the Combined License Application for the Callaway Unit 2 Plant. We had a session this afternoon. We had a little bit larger turnout, but that's okay. We appreciate your coming here tonight and taking time out of your schedule.

My name is Chet Poslusny. I'm going to serve as your facilitator/moderator tonight. And it's my job to make sure that this meeting is productive for you, who have taken time out of your schedule, as well as for the NRC staff who are here as well.

A few administrative items; we've got this meeting scheduled for three hours. We try to keep to that schedule. There are restrooms downstairs and you can reach them through the back of the auditorium on the left or right. We ask that you shut your cell phones off. That would be helpful.

A little bit about ground rules. This

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1 meeting is being transcribed tonight. So there is an  
2 official record being taken. Our friend over here is  
3 doing that job. So we ask that when you speak, state  
4 your name clearly and don't be afraid to speak loudly.

5 We expect that some people here will be  
6 expressing very strong opinions about the plant, the  
7 proposed plant, either positive or negative and we ask  
8 that we all listen attentively and courteously and let  
9 one person speak at a time; and we'll all get much  
10 more out of the meeting that way.

11 Meeting structure; a little bit about  
12 that. The first part of the meeting will have two of  
13 the members of the NRC staff that will talk a little  
14 bit about the review process for the Safety Review and  
15 the Environmental Review. And as I said before,  
16 tonight's focus is on the Environmental Review  
17 process. We will tell you a little bit -- I will tell  
18 you how you specifically can participate in that  
19 Environmental Review process.

20 The second part - well, after we finish  
21 with that, we'll have maybe five minutes of questions  
22 on those processes that we talked about. And then we  
23 turn to the most important part of the meeting where  
24 we will ask you to come up. Those of you that have  
25 signed up to speak and provide scoping comments, to

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1 come up here (indicating), or there (indicating), and  
2 provide those comments to us. And again, they will be  
3 recorded. That time period is not an opportunity for  
4 us to answer those comments. We will take them back  
5 with us and respond to them accordingly in our  
6 process. And we will talk more about that in a couple  
7 of moments.

8 But I do want to emphasize that this is a  
9 learning experience for those who come to this meeting  
10 from the public. And you may go home and think about  
11 some of the things you've heard tonight and want to  
12 send in additional comments. And that's good too.  
13 And anything that comes in either tonight recorded, or  
14 comes in written form or electronic, has the same  
15 weight. So don't feel if you don't feel like making a  
16 comment that you haven't lost out. We do have time to  
17 do that; and that's very important to you and to us.

18 So let me now introduce our speakers. The  
19 first one will be Greg Hatchett. He is the Chief of  
20 one of the Environmental Project Branches. The second  
21 person is Bruce Olson. He is our Environmental  
22 Project Manager. He will be up here shortly. And our  
23 Senior Manager today is Nilesh Chokshi. He's the  
24 Deputy Director for the Division of Site Environmental  
25 Reviews. We also have representatives from other NRC

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1 offices here including the resident inspector at the  
2 operating plant. So with that, let us begin our  
3 presentations. Greg.

4 MR. HATCHETT: Can everybody hear me  
5 okay? Back there? All right. Let me reintroduce  
6 myself. As Chet said, I'm Greg Hatchett, Chief of the  
7 branch where the Environmental Review for the project  
8 is being conducted as part of our development of the  
9 Environmental Impact Statement for the application  
10 submitted by AmerenUE.

11 We came to the community back in July  
12 where we talked briefly about our review process,  
13 where we presented both how you conduct a licensing  
14 review that included both the Safety Review and  
15 Environmental Review. Subsequent to that the  
16 Applicant, or AmerenUE, submitted its license  
17 application for the new unit. Later in the July, near  
18 the end of July, we began our acceptance review  
19 process. Back in December of last year, we docketed  
20 that application. What that means is we found the  
21 application acceptable to move forward with a more  
22 detailed review. Now that we're in our review process  
23 in earnest, we're back here in the community as part  
24 of the NEPA process to go through environmental  
25 scoping.

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1           The importance of the scoping process is  
2 that we come back to the community to say listen, the  
3 Applicant submitted an application pending the  
4 Environmental Report, but there may be some things  
5 about the environment that we are unaware of. And  
6 that there may be some concerns that citizens have,  
7 stakeholders have that can add value to the NRC  
8 process to develop the Environmental Impact Statement.

9       So we come out and we take those comments.

10           The scoping period lasts sixty days. And  
11 in that time period we physically come out like we're  
12 doing tonight. Then after this period you have until  
13 March 24<sup>th</sup> to submit additional comments. Bruce is  
14 going to come up and talk in more detail about the  
15 Environmental Review. And he's going to give a brief  
16 overview again of the safety process as well.

17           The stakeholder slide is up here now.  
18 Again, as NRC goes through its review processes it is  
19 very important to have input from a broad and diverse  
20 group of stakeholders. Information from the  
21 stakeholders provided to the Commission helps us  
22 better inform the decision making process that we have  
23 to go through.

24           Again, we want to thank you for coming  
25 out. Your participation is very important and we

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1 don't take it lightly when you take time out of your  
2 busy schedule to be a part of this process. So,  
3 thanks again. And I'm going to turn it over to Bruce.

4 II. Overview of the Combined License Process

5 MR. OLSON: Okay. Thanks a lot, Greg.  
6 And thank you all for coming here this evening and  
7 participating in the Public Scoping Meeting.

8 My name is Bruce Olson and I am the NRC  
9 Project Manager for the Environmental Review of the  
10 Callaway Plant 2 Combined License Application. I will  
11 start my presentation by briefly discussing the  
12 statutes and regulations that apply to NRC's reviews  
13 of the Combined License Application, and in particular  
14 to the Environmental Review.

15 In general, the NRC regulates civilian  
16 uses of nuclear materials to protect the public health  
17 and safety and the environment. But the NRC is not a  
18 proponent of nuclear power, but a licensing and  
19 regulatory agency. The NRC's regulatory and licensing  
20 functions include those for new nuclear reactors, and  
21 were established under the Atomic Energy Act of 1954.

22 The National Environmental Policy Act, which will  
23 sometimes be referred to as NEPA during this  
24 presentation, established national environmental  
25 policies for the protection, maintenance and

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1 enhancement of the environment. And it provides a  
2 means for federal agencies to carry out that goal.  
3 For NRC's licensing of new reactors, this is done  
4 through the development of an Environmental Impact  
5 Statement.

6 The NRC implements the above in a manner  
7 consistent with our licensing and regulatory functions  
8 and requirements of procedures for which are specified  
9 in the NRC regulations, including Title 10 of the Code  
10 of Federal Regulations, Part 51. In addition, the CFR  
11 Part 52 governs the issuance of Combined Licenses.

12 The NRC's Environmental Review also  
13 includes compliance with other statutes and laws, such  
14 as the National Historic Preservation Act, the  
15 Endangered Species Act, the Fish and Wildlife  
16 Coordination Act, and many other federal, state and  
17 local environmental laws and regulations.

18 The Applicant, AmerenUE, is seeking a  
19 Combined License for a new reactor, Callaway Plant 2.

20 Issuance of a Combined License is an NRC decision  
21 that authorizes an Applicant to construct and operate  
22 a nuclear power plant at a specific site in accordance  
23 with applicable federal statutes and regulations.  
24 Callaway Plant 2 Combined License, if issued by the  
25 NRC, would allow for the construction and operation of

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1 the plant with conditions.

2 AmerenUE submitted its Combined License  
3 Application on July 24<sup>th</sup>, 2008 for an AREVA EPR  
4 nuclear reactor. This application includes an  
5 Environmental Report which is now under review by the  
6 NRC as part of the licensing process.

7 NRC regulations allow Combined License  
8 Applications to reference designs that are docketed  
9 and under review by the NRC, but are not yet  
10 certified. The AREVA U.S. EPR design referenced by  
11 AmerenUE for use at the Callaway site has not yet been  
12 certified, but is currently under review by the NRC  
13 staff. The review is scheduled to be completed by  
14 May, 2011. The design, if acceptable, would be  
15 certified by rulemaking after that.

16 In addition, as part of its Callaway Plant  
17 Unit 2 License Application Review, the NRC staff  
18 conducts both a site-specific Safety Review of the EPR  
19 design in relation to the proposed location at the  
20 Callaway site and an environmental review and analysis  
21 of the potential impacts of constructing and operating  
22 the proposed Callaway Plant 2 at the existing Callaway  
23 site.

24 The Combined License Application review  
25 process begins when an application has been accepted

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1 and docketed by the NRC. The Safety and Environmental  
2 Reviews I discussed earlier are then started and are  
3 conducted in parallel.

4 The Safety Review follows the top path  
5 shown on this slide. The Environmental Review follows  
6 the bottom path. The Safety Review focuses on public  
7 health and safety in relation to the proposed facility  
8 and ends with issuance of a final Safety Evaluation  
9 Report. The Environmental Review focuses on a  
10 proposed plant's potential construction and  
11 operational impacts on the environment, and ends with  
12 the issuance of a final Environmental Impact  
13 Statement. Both of these reviews feed into the NRC's  
14 hearing process which follows the middle path shown on  
15 the slide. The hearing process factors in the results  
16 of both reviews and leads to the final step in the  
17 License Application Review Process; the NRC  
18 Commission's decision on whether or not to grant the  
19 license.

### 20 III. Overview of Environmental Review Process

21 MR. OLSON: As I mentioned earlier, the  
22 NRC's Environmental Review is guided by the National  
23 Environmental Policy Act known as NEPA. NEPA requires  
24 federal agencies to use a systematic approach to  
25 consider environmental impacts associated with major

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1 federal actions that have the potential to  
2 significantly affect the human environment. This  
3 approach involves input from the public. The NRC has  
4 determined that issuance of a Combined License for a  
5 nuclear reactor facility would be a major federal  
6 action. As such, the staff will develop an  
7 Environmental Impact Statement before the Commission  
8 takes final action on Ameren's application.

9 As part of the NRC Environmental Review,  
10 the staff will evaluate the potential environmental  
11 impacts of construction and operation of a new EPR  
12 facility at the Callaway site. NRC's regulations for  
13 implementing NEPA are in Title 10 of the Code of  
14 Federal Regulations Part 51. In addition, NRC's  
15 Environmental Standard Review Plan, NUREG 1555 and  
16 other documents, provide guidance to the NRC staff on  
17 how to conduct the Environmental Review and how to  
18 document our findings in an Environmental Impact  
19 Statement. These regulations and guidance documents  
20 can be found on NRC's web site which I will discuss  
21 later. The NRC's Environmental Review provides  
22 opportunities for public involvement.

23 The first opportunity is during the  
24 scoping period, which is why we are here today. After  
25 our environmental findings are clearly documented in

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1 the draft Environmental Impact Statement for the  
2 Callaway Plant 2 Project, the public will have an  
3 opportunity to comment on this draft EIS.

4 Throughout the entire review the NRC staff  
5 will maintain an open and transparent review process.

6 When a Combined License Application is received, the  
7 NRC staff first review it to ensure that it meets our  
8 completeness and technical sufficiency guidelines. If  
9 acceptable, the Application is docketed and we proceed  
10 with both the Environmental and Safety Reviews.

11 The three white ovals on the slide  
12 identify periods at which the public has the  
13 opportunity to participate in the review process. To  
14 start the Environmental Review the NRC publishes a  
15 Notice of Intent in the Federal Register. This notion  
16 informs the public of our intention to prepare an  
17 Environmental Impact Statement and conduct the scoping  
18 process. The scoping process includes a public  
19 comment period. This public meeting is part of that  
20 process. We collect your comments today and document  
21 them in a meeting transcript. The public can also  
22 provide any comments through the end of the scoping  
23 period. After the end of the scoping period the  
24 Scoping Summary Report is prepared and made public.  
25 Additional information for preparing the EIS is

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1 gathered during the site audit and other collection  
2 activities.

3 At the site audit the NRC staff visits the  
4 project site and vicinity and meets with the  
5 Applicant's representatives to begin the NRC's  
6 independent evaluation of the information that has  
7 been provided in the Applicant's Environmental Report  
8 which we have now.

9 After analyzing the information gathered  
10 we develop a draft EIS and issue it for public  
11 comment. At that time we hold another public meeting,  
12 such as this one, and it will probably be in the same  
13 place, to present the results of our review and invite  
14 your comments on the draft EIS.

15 After evaluating your comments the NRC  
16 staff may decide to modify the draft EIS and as a  
17 result, issue the final EIS. The final EIS and the  
18 results of the Safety Review are used as inputs to the  
19 NRC's hearing process. The final result of which is a  
20 decision by the Commission on the application.

21 You are the ones who are most familiar  
22 with the community. The NRC staff has come here today  
23 so that you can share with us those environmental  
24 issues and values that you believe are important to  
25 your community. We will consider this information in

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1 preparing the Callaway Plant 2 EIS. In addition to  
2 providing comments and information here today, you  
3 have the opportunity to continue to share your  
4 comments and provide additional information to us  
5 through March 24<sup>th</sup>, 2009, as I'll discuss later in the  
6 schedule. We will include all comments received in  
7 our Scoping Summary Report, which will be available on  
8 the NRC web site in the July, 2009 timeframe.  
9 Comments applicable to this Environmental Review will  
10 be considered in the NRC staff's development of the  
11 draft EIS.

12 Many different sources of information are  
13 used by the NRC to develop the EIS for Callaway Plant  
14 2. This EIS will be an independent evaluation of the  
15 affects of the proposed plant on the environment in  
16 the local community. So, although the staff starts  
17 with the Applicant's Environmental Report and the  
18 Combined License Application, we investigate other  
19 possible sources of information. This scoping meeting  
20 represents one point at which the NRC staff will  
21 gather comments and information from the public. We  
22 will also conduct the site audit discussed earlier and  
23 will communicate with federal, tribal, state and local  
24 agencies to gain additional information and insights.

25 As shown on this slide, a multi-

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1 disciplinary team of NRC staff with backgrounds in a  
2 variety of relevant scientific and technical  
3 disciplines have been assembled to conduct the  
4 Callaway Plant 2 Environmental Review. In addition,  
5 the NRC has contracts with the Pacific Northwest  
6 National Laboratory and Numark Associates who assist  
7 us in preparing the EIS. The NRC and contractor staff  
8 have expertise on a wide ranging set of topics related  
9 to environmental issues and nuclear power as noted.

10 Now the schedule. The NRC's review of the  
11 Environmental Report is underway. And the Notice of  
12 Intent to prepare an EIS and conduct scoping was  
13 published on January 23<sup>rd</sup>, 2009. Again, you can  
14 provide your oral and written comments for the scoping  
15 process today and your written comments through March  
16 the 24<sup>th</sup> of this year. We have copies of the Federal  
17 Register Notice of Intent here on the registration  
18 table at the auditorium entrance. This notice  
19 describes how you, the public, can submit your scoping  
20 comments.

21 The NRC expects to complete the draft EIS  
22 in 2010, at which time it will made available for  
23 seventy five days for public comment. During this  
24 time we will have another public meeting to share the  
25 results of our Environmental Review and to receive

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1 your comments on the draft EIS. Your comments will be  
2 evaluated and addressed for the final EIS. The Agency  
3 expects to issue the final EIS in 2011. The NRC  
4 schedule for Callaway Plant 2 Combined License  
5 Application review has not been finalized, so the  
6 milestone dates shown here are estimated. You can go  
7 to the NRC's web site at any time, [www.nrc.gov](http://www.nrc.gov), and  
8 the project specific Callaway web page will provide  
9 the most up-to-date information when it is available.

10 As discussed earlier, during the  
11 Environmental Review process the public has  
12 opportunities to comment during the scoping period and  
13 on the draft EIS. Public meetings, such as this one  
14 today, are held at each of these points in the  
15 process. The public will also have access to the  
16 Environmental Review results in the form of the draft  
17 and final EIS on NRC's web site and at other  
18 locations.

19 Another opportunity for public involvement  
20 is the NRC's formal hearing process which covers both  
21 environmental and safety issues. This process  
22 includes a mandatory hearing before the Commission;  
23 and, if necessary, one or more contested hearings  
24 before the Atomic Safety and Licensing Board. As will  
25 be discussed in more detail on the next slide,

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1 interested persons can petition to intervene in this  
2 process.

3 Deadline to file a Petition to Intervene  
4 is April 6<sup>th</sup>, 2009. Once the NRC publishes a notice  
5 of opportunity to participate in the hearing, the  
6 public has sixty days to file an application to  
7 intervene. This notice was published in the Federal  
8 Register on February 4<sup>th</sup> this year so the deadline to  
9 file will be Sunday, April the 5<sup>th</sup>. Where the  
10 computed day is Sunday, the period runs until the end  
11 of the next day; that leads to April the 6<sup>th</sup>. Anyone  
12 wishing to file a petition to intervene should give  
13 the hearing notice close attention and should review  
14 Title 10 of the Code of Federal Regulations Part  
15 2.309. Both provide important information related to  
16 intervention petitions.

17 To file a petition to intervene you must  
18 obtain digital certificate approval from the NRC in  
19 advance or seek a waiver from the digital certificate  
20 requirement. The information regarding this process  
21 is provided in the hearing notice and on the web site  
22 shown on this slide. It is important not to wait  
23 until the last week of the notice period because it  
24 may take up to ten business days to receive the  
25 digital certificate. We have here today at our

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1 registration table, copies of the February 4<sup>th</sup> hearing  
2 notice, information about the E-filing web site and a  
3 help number is provided as well, 1-866-672-7640.

4 There are several points of contact where  
5 you can obtain information. In addition to myself, I  
6 have provided the phone number of Mr. Surinder Arora,  
7 who is our Lead Safety Project Manager sitting right  
8 here in front of us.

9 The Callaway Plant 2 Application can be  
10 reviewed on the internet at our electronic reading  
11 room linked to the NRC web site, which is [www.nrc.gov](http://www.nrc.gov).

12 In addition, the NRC recently established a telephone  
13 and email help desk to assist interested parties in  
14 accessing documents through the Agency's electronic  
15 filing system. The help desk can be reached toll free  
16 at 1-800-397-4209 or by email at [pdr.resource@nrc.gov](mailto:pdr.resource@nrc.gov).

17 The Callaway Plant 2 Environmental Report  
18 is also available now in hard copy in a digital format  
19 at the Callaway County Library in Fulton and in the  
20 Ellis Library at the University of Missouri in  
21 Columbia. The draft and final EIS reports will also  
22 be available there in the future when they are  
23 prepared.

24 If you want to be on our mailing list,  
25 please make sure your name and address is provided to

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1 one of the NRC staff at our registration table. They  
2 can provide you with a card for that purpose. This is  
3 one way of ensuring that you will be notified of up-  
4 coming meetings and that you will receive copies of  
5 the draft and final EIS.

6 Finally the last slide. Your scoping  
7 comments regarding the NRC's Callaway Plant Unit 2  
8 Environmental Review can be provided today to us at  
9 this meeting. Your comments can also be provided to  
10 us by mail or email. Details given in this slide give  
11 you an address to send mail comments and it can be  
12 picked up on the registration table if you don't have  
13 a copy of that already.

14 And this concludes our slide presentation.

15 Thanks again for participating in the scoping  
16 process. MR. POSLOSNY: Thank you Greg  
17 and Bruce. Clearly there are a lot of activities is  
18 going on at the NRC right now with this application.  
19 We tried to talk a little bit about it and give you an  
20 overview; and I would like to give you an opportunity  
21 over the next five or ten minutes to ask any questions  
22 you would like regarding that process or how you can  
23 participate, or when, if it's not very clear. If you  
24 would be kind enough to raise your hand, I could come  
25 up with the mike, or you can come up to one of the

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1 podiums and ask a question. Okay, I'll be patient.

2 (No Verbal Response)

3 MR. POSLOSNY: I don't see any, but that's  
4 okay. We'll get to the second part of the meeting,  
5 which I said is the most important part, where we  
6 collect your comments, suggestions, inputs, on how we  
7 should do that Environmental Review that we've talked  
8 about tonight; what things we maybe should focus on.  
9 Again, because you who have taken the time and live  
10 closest to the plant, know about issues in the  
11 environment that we may need to look at. So we asked  
12 folks this evening and this afternoon as well to sign  
13 up to come and give comments. And I have a list here.

14 We would like you to keep your comments to no longer  
15 five minutes, please, per person. And that's the  
16 ground rule that we use at every meeting and if you  
17 have more information to provide, please provide it in  
18 writing or electronically. And as I said in the  
19 beginning, it carries the same weight and we will  
20 evaluate them in the same manner as anything received  
21 tonight.

22 IV. PUBLIC COMMENTS

23 MR. POSLOSNY: Okay, with that, our first  
24 speakers have decided to speak together. That's Kay  
25 Drey and Linda Fried. Please come on up. And the

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1 second person will be Raj Govindarajon.

2 LINDA FRIED: Good evening. My name is  
3 Linda Fried. I'm a conservation biologist and I live  
4 in St. Louis. I'm here with my friend, Kate Drey,  
5 with whom I share concerns about the effects of  
6 nuclear power on our environment. I'm letting Kay  
7 describe some of our concerns.

8 KAY DREY: Thank you, Linda. My name is  
9 Kay Drey. I live in University City, Missouri, sixty  
10 air miles downwind and eighty river miles down stream  
11 of the Callaway Nuclear Power Plant. I hope the  
12 Nuclear Regulatory Commission's Environmental Impact  
13 Statement on the proposed second Callaway reactor will  
14 address concerns about tritium and about other  
15 radioactive waste that would be released into the  
16 environment from the reactor.

17 Regarding tritium, I first read in the  
18 NRC's 1974 Callaway Environmental Statement that the  
19 NRC staff calculated that each of the two reactors  
20 being proposed for construction at that time, would  
21 release an estimated three hundred and fifty curies of  
22 tritium, or radioactive hydrogen, into the Missouri  
23 River every year. And I later read that an additional  
24 estimated one thousand curies of tritium would be  
25 released every year into the atmosphere as a part of

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1 the routine operation of the Callaway Plant, not as a  
2 result of an accident. That sounded like a lot of  
3 curies to me and so I began reading about tritium.  
4 When I phoned the Health Physicist at the Oak Ridge  
5 Tennessee National Laboratory back in 1977, he assured  
6 me, quote "*Tritium is no big deal. All it can do is*  
7 *destroy a DNA molecule.*" I told him that I did not  
8 want my DNA molecules destroyed or my children's. I  
9 learned that tritium is formed as a fission product  
10 within the existing Callaway reactor's fifty thousand  
11 uranium fuel rods. And because hydrogen can diffuse  
12 through most metals, the tritium generated at Callaway  
13 can and does leak into the reactor vessel's cooling  
14 water through the metal tubing of the fuel rods and  
15 through defective fuel rod wells, and then can be  
16 released into the environment.

17 I learned that tritium is also formed from  
18 the boron added to the reactor vessel's cooling water  
19 and from the fissioning of the so-called tramp  
20 uranium. That is the uranium that is inadvertently  
21 left on the outside of the fuel rods during the  
22 fabrication of the rods.

23 I learned back then that no economically  
24 feasible technology exists to separate and remove  
25 tritium from regular hydrogen in the cooling water

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1 that is released to the environment. Tritium has a  
2 half-life of 12.3 years and will continue giving off  
3 beta radiation for at least ten half lives or some  
4 hundred twenty and some years. If swallowed or  
5 inhaled it can cause reproductive, cellular, and  
6 genetic damage.

7 I would like to request that the NRC  
8 include responses in the Callaway 2 Environmental  
9 Impact Statement to the following questions about  
10 tritium.

11 One, because of the proposed AREVA reactor  
12 would be much larger; 1,600 megawatts, than the  
13 current Callaway reactor, 1,228 megawatts, would it  
14 not generate and release greater quantities of  
15 tritium?

16 Two, how much tritium do you estimate  
17 could be generated in a typical year in a reactor  
18 vessel's cooling water?

19 Three, how many curies of that tritiated  
20 water do you estimate would be released annually into  
21 the Missouri River, and potentially might leak in the  
22 ground water?

23 Four, how many curies of tritium would be  
24 released into the atmosphere from the reactor,  
25 turbine, and radioactive waste building vents in a

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1 typical year?

2           Regarding noble gases, I would also like  
3 to ask the same questions about the curie content in  
4 pathways of radioactive, fission-generated, noble  
5 gases. That is, I request this information be  
6 included in the Environmental Impact Statement about  
7 the release of dissolved noble gases into the Missouri  
8 River and of noble gases released into the air.

9           For example, krypton becomes rubidium and  
10 then strontium and xenon becomes cesium. As a few of  
11 you may be old enough to remember, strontium and  
12 cesium were two of the three fission products most  
13 discussed and feared during the years of atmospheric  
14 nuclear weapons tests. The third was radioactive  
15 iodine. They are all produced by nuclear bombs and by  
16 nuclear powered reactors. One of the most common  
17 high-yield fission products is the noble gas isotope  
18 Xenon 135. Since, as with tritium, it unfortunately  
19 cannot be filtered from a plant's effluents to the air  
20 and water. It is not required to be. It is released  
21 to the environment from every nuclear power plant  
22 during mini-purging, during regular purging and  
23 venting, and as the result of accidents. Xenon 135  
24 becomes cesium 135 that has a half-life of 2.3 million  
25 years.

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1           Regarding the NRC's pending certification  
2 of the AREVA reactor decision. Last summer I attended  
3 a public meeting held by the NRC here in this  
4 auditorium and asked just one question. I asked how  
5 the NRC could be undertaking an analysis of the  
6 environmental impacts of the AREVA reactor before the  
7 NRC had completed its analysis of the reactor design  
8 and before its decision about whether or not to  
9 certify the design? The design has not yet been  
10 certified. I was surprised that night to learn that  
11 the NRC's analysis of the design does not include an  
12 analysis of the radioactive waste systems. That is  
13 the generation and isolation of the waste and the  
14 mechanisms for filtering, diluting and monitoring its  
15 discharge into the environment.

16           I would like to ask if your investigation  
17 of whether or not to certify the AREVA design  
18 currently includes an examination of the radioactive  
19 waste generation, treatment and discharge equipment?  
20 If you are now studying the proposed radioactive waste  
21 systems of a new reactor designs as they are finally  
22 doing in the United Kingdom, do you include an  
23 estimate of the volume of waste that might be released  
24 into the air and water and a description of the  
25 environmental impacts of those wastes, both of the

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1 wastes that could be released during the routine  
2 operation of the plant as well as the waste that could  
3 be released as a result of an accident?

4           Regarding the maintenance of the  
5 radioactive waste equipment, this is my final  
6 question. AmerenUE has described the design and  
7 operation of the current Callaway Westinghouse Reactor  
8 as being quote, "*zero discharge.*" That is that it is  
9 built with equipment designed to keep radioactive  
10 gaseous, liquid and particulate materials from being  
11 discharged into the Missouri River. I was surprised,  
12 therefore to learn just recently, that some of the  
13 equipment that was installed in the current Callaway  
14 Plant to evaporate and recycle the radioactive waste  
15 water, and thereby, to reducing the amount of  
16 radioactivity released into the Missouri River has not  
17 been used for at least ten years.

18           I know that the NRC relies on each of its  
19 licensees to measure, extrapolate, and report the  
20 amounts of radioactive waste released into the  
21 environment from its power plant. I would like to  
22 request that the Callaway 2 Environmental Impact  
23 Statement include an analysis of whether the public  
24 can be assured that the equipment designed to reduce,  
25 monitor and report the amounts of radioactivity

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1 released to the environment is accurate and that the  
2 equipment will continue to be maintained and operated  
3 throughout the life of the plant. Thank you.

4 MR. POSLOSNY: Thank you. And I know she  
5 was a little long, but I allowed them to share ten  
6 minutes. So the next person is Raj Govindarajon.

7 RAJ GOVINDARAJON: My name is Raj  
8 Govindarajon. I have been in Fulton as a small  
9 business operator for almost forty years. Before  
10 that, almost thirty to thirty-four years I have been a  
11 biologist, biochemist and also a microbiologist by  
12 profession. I, myself, have worked with P32, C14,  
13 S35, tritium; I'm still alive here talking in front of  
14 you. I worked with those things for twenty-three  
15 years.

16 Talking about the second unit, the nuclear  
17 plant coming here, the first plant was started in  
18 1984. Almost twenty-four years this plant has been in  
19 operation here and safety has been one of the topmost  
20 concerns and they have been operating there. And  
21 because of that in the year 2006 they have been  
22 awarded the safety -- I think it is from the Institute  
23 of - if I remember right, it is Edison Electric  
24 Institute Safety Award was given to the Callaway  
25 Nuclear Plant for the year 2006.

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1           There are about a hundred and four nuclear  
2 plants in this country. Out of that, the nuclear  
3 Callaway 1 Plant ranks number four. And having such  
4 an excellent safety record also, it's (inaudible) that  
5 the impact on Ameren would be the least problematic  
6 thing, because the safety, -- everything has been  
7 taken care of through the safety.

8           Another important thing that I would like  
9 to share at this point is coal is out of the question  
10 as far as Missouri is concerned. The reason is, as  
11 early as 2006 Missouri has been identified as one of  
12 the five worst states having carbon pollution. And  
13 the reason for that is we have two coal plants in  
14 Missouri. So, the Environmental Protection Agency is  
15 (inaudible), you know, regarding Missouri regarding  
16 this issue. So at this point the only better option  
17 that we have is nuclear.

18           I say that and you might not believe that,  
19 but who else can better speak than Dr. Steven Chu, the  
20 Nobel Prize Winner, the nuclear physicist who is the  
21 Department of Energy Secretary. During his  
22 confirmation hearing a lot of Senators questioned him  
23 as to what is the most promising thing as of today for  
24 the energy field. And his answer was, nuclear. And  
25 they were asking him about coal and he said no, he

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1 would not recommend coal. They asked him about, --  
2 the President-Elect was so much in favor of renewable  
3 energy and what is your take on that? He said, I  
4 agree with him, but that will ten to twenty years from  
5 now, but we need electricity now. And when people are  
6 talking about hybrid cars, and where would they put  
7 the hybrid cars through the night. They need  
8 electricity. So this is probably the most fitting  
9 time that the Department of Energy Secretary is Dr.  
10 Steven Chu who is a nuclear physicist. I don't think  
11 any of us are more qualified to talk about what is the  
12 option available and nuclear energy is the option that  
13 is available. I guess these are the few things that I  
14 would like to share with this group. Thank you.

15 MR. POSLOSNY: Thank you. Next is  
16 Genevieve Lamboley.

17 GENEVIEVE LAMBOLEY: Hi. My name is  
18 Genevieve Lamboley and I speak today on behalf of the  
19 Clean and Safe Energy Coalition, CASE Energy, and also  
20 as someone who grew up here in Missouri. CASE Energy  
21 is a national grassroots organization made up of more  
22 than eighteen hundred individuals and organizations  
23 who come together in support of nuclear energy as a  
24 vital part of this country's energy portfolio.

25 According to the U.S. Department of Energy

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1 our electricity demand will increase by twenty one  
2 percent by 2030. Here in Missouri nuclear power  
3 provides ten percent of the state's energy needs and  
4 eighty five percent of the clean energy.  
5 Consequently, an additional nuclear reactor at  
6 Callaway site would only improve the air quality by  
7 reducing emissions on greenhouse gases. Missouri has  
8 experienced an average growth of nearly one percent  
9 per year over the past five years. In order to keep  
10 Missouri's economy growing, the state will need new  
11 sources of power; power that is good for the  
12 environment and the economy.

13 Nuclear energy is clean. The  
14 environmental impact of a nuclear plant is far lower  
15 than many other types of power generating plants.  
16 Nuclear energy is safe. The U.S. Bureau of Labor  
17 Statistics has shown that it is safer to work in a  
18 nuclear power plant than in the manufacturing sector  
19 and even in the real estate and financial industries.

20 In addition, a nuclear power plant makes a good  
21 neighbor. It supports high-paying jobs directly at  
22 the plant and generates additional jobs in the  
23 community where it is located, and contributes by  
24 helping to build good schools and roads.

25 As our CASE Energy Job Report points out,

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1 which you can access on our web site at  
2 [www.CleanSafeEnergy.org](http://www.CleanSafeEnergy.org), if the U.S. Utilities  
3 complete the twenty six reactors currently under  
4 consideration, we would add twelve thousand to twenty-  
5 one thousand new, clean jobs to the market. In the  
6 past five years alone, the Nuclear Energy Institute  
7 has created fifteen thousand new jobs, and added more  
8 than four billion dollars to the economy to prepare  
9 for building new state-of-the-art reactors. In these  
10 economic times there is no stronger argument in  
11 support of the expansion of nuclear power. Thank you.

12 MR. POSLOSNY: Thank you. Next is  
13 Jonathan Murphy.

14 JONATHAN MURPHY: Good evening. My name  
15 is Jonathan Murphy and I speak on behalf of the Clean  
16 and Safe Coalition, also known as CASE. We support  
17 the construction of new reactors like the proposed  
18 second unit here at Callaway and are actively engaged  
19 in generating a public dialogue to educate others of  
20 the economic and environmental benefits of new nuclear  
21 power.

22 We all know that our nation relies heavily  
23 on electricity. To restate Genny's point, the U.S.  
24 Department of Energy estimates that our electricity  
25 demand will increase twenty one percent by 2030.

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1 That's a lot. Technological advances have increased  
2 our reliance on many gadgets that power our lives more  
3 efficiently and have only increased the need for more  
4 clean, affordable, sources of power. Nuclear energy  
5 is clean. It is the only large-scale, emissions-free  
6 source of electricity that we can readily expand to  
7 meet our growing energy demands. It already accounts  
8 for more than seventy percent of all clean energy  
9 produced in the U.S., and supplies twenty percent of  
10 all U.S. power.

11 The reality is we will require more power  
12 from a wide variety of sources in the years ahead. A  
13 wise energy policy recognizes the virtue of diversity.

14 And in that diverse plan nuclear energy is a critical  
15 component. We all have a shared stake in America's  
16 energy future. Now is the time for our country to  
17 support nuclear energy as a means to generate  
18 electricity as a clean, safe and dependable source of  
19 power. Thank you.

20 MR. POSLOSNY: Okay. The next speaker is  
21 Mark Fohey.

22 MARK FOHEY: Thank you for letting me  
23 make a few comments here. I'm here representing the  
24 building trades -- local building trades and the State  
25 of Missouri building trades. Callaway One has

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1 provided environmentally safe, clean jobs and energy  
2 for many years so we support the same as Callaway Two  
3 environmentally safe, clean jobs. And as our nuclear  
4 power usage increases the building trades is promoting  
5 recycling of the spent fuel. Thank you, sir.

6 MR. POSLOSNY: Thanks. Next speaker is  
7 Tim Herrmann.

8 TIM HERRMANN: Good evening. I'm Tim  
9 Herrmann. I'm the Vice President of Engineering out  
10 at Callaway. I handle the engineering and regulatory  
11 affairs for the operating plant; and I also have  
12 responsibility for our new plant effort.

13 I really wanted to come up tonight and  
14 thank everyone who has shown up tonight to provide  
15 input into this process. This process is here so that  
16 we can understand the concerns and the support that  
17 are in the area to provide input to the NRC as part of  
18 the process in going through our license submittal.  
19 So, I just wanted to get up and say thank you to  
20 everyone for being here tonight. Thank you.

21 MR. POSLOSNY: The next speak is Randy  
22 Thoenen. T-H-O-E-N-E-N. Is Randy here?

23 (No Verbal Response)

24 MR. POSLOSNY: Okay. Mr. Warren Wood

25 WARREN WOOD: Good evening and thank you very

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1 much for coming. My name is Warren Wood. I am a  
2 licensed engineer in the State of Missouri with a  
3 background in power plant planning, design and  
4 construction, including nuclear power and statutory  
5 regulation. I'm here tonight in my capacity as the  
6 Director of the Missouri Energy Development  
7 Association which supports energy policy issues for  
8 the investor under electric, natural gas and water  
9 utilities. My thanks to the NRC for holding the  
10 meeting this evening.

11 As has been noted by a number of people  
12 this evening demand for electricity is indeed  
13 increasing. Since 1990 demand is up over fifty  
14 percent, and the projections are by 2030 we will grow  
15 another twenty percent in our demand. Yes, people are  
16 using energy more efficiently. They buy the energy  
17 star appliances, but they have more of them in their  
18 house than they have ever had. We insulate our homes  
19 better, but we have bigger homes than we have ever  
20 had. And now we're talking about moving our cars over  
21 to electricity steadily.

22 Missouri is almost eighty percent  
23 dependent on coal. We are the eighth most coal-  
24 dependent state in the country. Our average unit -  
25 coal-fired unit is a little over forty years of age

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1 now and federal regulations are coming in terms of  
2 carbon regulations. We used to wonder if. We now  
3 only ask when and what the impact will be from those  
4 regulations. Our projections are by 2020 that we will  
5 see electric rates, if we do nothing, increase by  
6 thirty to fifty percent in response to carbon  
7 regulations being discussed at the federal level.

8 When we look to the future for an increase  
9 in fuel prices, we look at carbon regulations, we  
10 arrive at three things that we need to do going  
11 forward. Energy efficiency, renewables and then we  
12 need a base load power source. In that we clearly  
13 arrive at a nuclear power option.

14 Nuclear is low cost. It continues to be  
15 among the first units we dispatch because it provides  
16 the lowest cost source of power to Missourians. It is  
17 ultra clean. Seventy one percent of our emission-free  
18 electricity in the United States now comes from  
19 nuclear power. Twenty five percent plus comes from  
20 hydro, and other renewable resources cover the small  
21 amount that is left.

22 When we talk about spent fuel, some people  
23 bring that issue to me. There are some great quotes  
24 by Dr. Steven Chu a little earlier in his Senate  
25 Confirmation Hearing. He refers

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1 to -- on spent fuel, he says, there are other  
2 countries doing recycling and now we are in a  
3 different time and place. He also refers to our need  
4 to look at nuclear power with new eyes. And he is  
5 specific in terms of his hopes for the future in terms  
6 of recycling. He says I'm confident that the  
7 Department of Energy, perhaps in collaboration with  
8 other countries can get a solution to the nuclear  
9 waste problem.

10 Clean, sustainable, safe, supportive of  
11 our energy independence -- it's time to look beyond  
12 some of the irrational fears that we have been  
13 troubled with in the past and move ahead with our  
14 energy independence. Thank you very much.

15 MR. POSLOSNY: Thank you. That actually  
16 is the end of the list of the folks who have signed up  
17 for this evening's input. This afternoon we had about  
18 twenty folks that provided input on the record. And  
19 as we said several times this evening, the window is  
20 still open for more comments. So we hope that -- or  
21 we challenge you to talk to other folks when you go  
22 home and in your community or at work to see if there  
23 are other things that they need to think about or we  
24 need to know about. And you can use the electronic or  
25 regular mail to provide that information to us.

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1           So before we go I would like to ask Nilesh  
2 to add some comments.

3           V.       CLOSING

4           MR. CHOKSHI:     Hello.   My name is Nilesh  
5 Chokshi and I am Deputy Director for the Division of  
6 Site and Environmental Reviews and we conduct reviews  
7 for site safety and environmental applications.

8           First of all, I would thank you for all  
9 coming out.   It has been great being here and  
10 participating in this scoping process.   Your  
11 participation is very vital for us to fulfill our  
12 responsibilities under the NEPA, as well as produce a  
13 quality Environmental Impact Statement.  It is one of  
14 the factors in the Commission's decision to grant a  
15 license or not.

16           The scoping process presents the  
17 opportunity to provide comments; and the scoping  
18 process does not cease today.  And think as Bruce  
19 mentioned, the comment period ends March 24<sup>th</sup>, and on  
20 his slide there are means by which you can give us  
21 input.  So please, as I think Chet mentioned, think  
22 about it tonight; and go back and (inaudible)  
23 Environmental Impact Statement, please let us know.

24           I also want to remind you that there is a  
25 lot information regarding the application on our web

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1 site such as the Environmental Report, Safety Report,  
2 as well as how to get involved in our licensing  
3 process. So, please you can get information that way.

4 The next step in our process will be,  
5 after we get the scoping presented, we will be back  
6 here again in about a year's timeframe, after we have  
7 completed our draft Environmental Impact Statement and  
8 come back again to get comments from you. So once  
9 again, have a good night and thanks for participating.

10 MR. POSLOSNY: The record is closed and  
11 thank you.

12 (Whereupon, the hearing was concluded at  
13 6:58 p.m.)

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