



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

September 9, 2013

Mr. Adam C. Heflin  
Senior Vice President and Chief Nuclear Officer  
Union Electric Company  
P.O. Box 620  
Fulton, MO 65251

SUBJECT: ISSUANCE OF ENVIRONMENTAL SCOPING SUMMARY REPORT  
ASSOCIATED WITH THE STAFF'S REVIEW OF THE APPLICATION BY  
UNION ELECTRIC COMPANY FOR RENEWAL OF THE OPERATING  
LICENSE FOR THE CALLAWAY PLANT, UNIT 1

Dear Mr. Heflin:

The U.S. Nuclear Regulatory Commission (NRC) staff conducted an environmental scoping process and solicited public comments from February 24, 2012, to April 24, 2012. This process determined the scope of the staff's environmental review of the application for renewal of the operating license for the Callaway Plant, Unit 1 (Callaway). The scoping process is the first step in the development of a plant-specific supplement to NUREG-1437 Revision 1, "Generic Environmental Impact Statement for License Renewal of Nuclear Plants" (GEIS), for Callaway.

As part of the scoping process, the staff held two public meetings in Fulton, MO, on March 14, 2012, to solicit public input regarding the scope of the review. The staff also received written comments by letter and through [www.Regulations.gov](http://www.Regulations.gov). At the conclusion of the scoping process, the staff prepared the enclosed environmental scoping summary report identifying comments received during the scoping period. In accordance with Section 51.29(b) of Title 10 of the *Code of Federal Regulations* (10 CFR), the staff will send a copy of the scoping summary report to all who have participated in the scoping process.

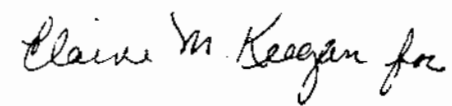
The transcripts of the public scoping meetings are available for public inspection in the NRC Public Document Room (PDR), located at One White Flint North, 11555 Rockville Pike, Rockville, Maryland 20852, or from the NRC's Agencywide Documents Access and Management System (ADAMS). The ADAMS Public Electronic Reading Room is accessible at <http://www.nrc.gov/reading-rm/adams.html>. The transcripts for the afternoon and evening meetings are listed under ADAMS accession numbers ML12095A400 and ML12096A386, respectively. Persons who encounter problems while attempting to access documents in ADAMS should contact the NRC's PDR reference staff by telephone at 1-800-397-4209 or 301-415-4737 or by e-mail at [pdr.resource@nrc.gov](mailto:pdr.resource@nrc.gov).

A. Heflin

- 2 -

The draft supplement to the GEIS is scheduled to be issued in November 2013. A notice of the availability of the draft document and the procedures for providing comments will be published in the *Federal Register*. If you have any questions concerning the staff's environmental review of this license renewal application, please contact the project manager, Ms. Carmen Fells, at 301-415-6337 or by e-mail at [Carmen.Fells@nrc.gov](mailto:Carmen.Fells@nrc.gov).

Sincerely,

A handwritten signature in cursive script, appearing to read "David J. Wrona for".

David J. Wrona, Chief  
Projects Branch 2  
Division of License Renewal  
Office of Nuclear Reactor Regulation

Docket No. 50-483

Enclosure:  
As stated

cc w/encl: Listserv

The draft supplement to the GEIS is scheduled to be issued in November 2013. A notice of the availability of the draft document and the procedures for providing comments will be published in the *Federal Register*. If you have any questions concerning the staff's environmental review of this license renewal application, please contact the project manager, Ms. Carmen Fells, at 301-415-6337 or by e-mail at [Carmen.Fells@nrc.gov](mailto:Carmen.Fells@nrc.gov).

Sincerely,

*/RA by Elaine Keegan for/*

David J. Wrona, Chief  
Projects Branch 2  
Division of License Renewal  
Office of Nuclear Reactor Regulation

Docket No. 50-483

Enclosure:  
As stated

cc w/encl: Listserv

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ADAMS Accession No.: **ML13182A614**

OFFICE	LA:DLR	PM:RPB2:DLR	OGC	BC:RERB:DLR	BC:RPB2:DLR
NAME	Wrona	CFells	BMizuno	MWong	DWrona ( <i>EKeegan</i> )
DATE	7/15/2013	7/15/2013	8/9/2013	7/31/2013	9/9/2013

OFFICIAL RECORD COPY

**Environmental Impact Statement  
Scoping Process**

**Summary Report**

**Callaway Plant, Unit 1  
Callaway County, MO**

**September 2013**



**U.S. Nuclear Regulatory Commission  
Rockville, Maryland**

ENCLOSURE

## Introduction

The U.S. Nuclear Regulatory Commission (NRC) received an application from Union Electric Company, a subsidiary of Ameren Corporation and doing business as Ameren Missouri (Ameren), dated December 19, 2011, for renewal of the operating license for Callaway Plant, Unit 1 (Callaway). Callaway is located in Callaway County, approximately 10 miles southeast of Fulton, Missouri, and 80 miles west of the St. Louis metropolitan area. The purpose of this report is to provide a concise summary of the determinations and conclusions reached, including the significant issues identified, as a result of the scoping process in the NRC staff's (the staff's) environmental review of this license renewal application.

As part of the application, Ameren submitted an environmental report (ER) (Ameren 2011) prepared in accordance with Title 10 of the *Code of Federal Regulations* (10 CFR) Part 51, which contains the NRC requirements for implementing the National Environmental Policy Act of 1969 (NEPA). The requirements for preparation and submittal of ERs to the NRC are outlined in 10 CFR 51.53(c)(3).

On June 20, 2013, the NRC published a final rule (78 FR 37282) revising its environmental protection regulation, Title 10 of the *Code of Federal Regulations* (10 CFR) Part 51, "Environmental protection regulations for domestic licensing and related regulatory functions." The final rule updates the potential environmental impacts associated with the renewal of an operating license for a nuclear power reactor for an additional 20 years. The revised GEIS, which updates the 1996 GEIS, provides the technical basis for the revised rule. The revised GEIS specifically supports the revised list of NEPA issues and associated environmental impact findings for license renewal contained in Table B-1 in Appendix B to Subpart A of the revised 10 CFR Part 51. The final rule consolidates similar Category 1 and 2 issues, changes some Category 2 issues into Category 1 issues, and consolidates some of those issues with existing Category 1 issues. The revised rule also adds new Category 1 and 2 issues.

The final rule became effective 30 days after publication in the *Federal Register*. Compliance by license renewal applicants is not required until one year from the date of publication (i.e., license renewal environmental reports submitted later than one year after publication must be compliant with the new rule). Nevertheless, under NEPA, the NRC must now consider and analyze in its license renewal SEISs, the potential significant impacts described by the final rule's new Category 2 issues and, to the extent there is any new and significant information, the potential significant impacts described by the final rule's new Category 1 issues.

Additionally, regarding spent nuclear fuel, the NRC has made changes to the "Onsite storage of spent nuclear fuel" issue and the "Offsite radiological impacts of spent nuclear fuel and high-level waste disposal" issue as a result of the United States Court of Appeals decision in *New York v. NRC*, 681 F.3d 471 (D.C. Cir. 2012), which vacated the NRC's 2010 waste confidence decision and rule (75 FR 81032 and 81037; December 23, 2010). The Category 1 "Onsite storage of spent nuclear fuel" issue was revised to limit the period of time covered by the issue to the license renewal term. Similarly, the NRC revised the Category 1 "Offsite radiological impacts of spent nuclear fuel and high-level waste disposal" issue by reclassifying

the issue from a Category 1 issue with an impact level of small to an uncategorized issue with an impact level of uncertain. These issues are discussed in Chapter 6 of the draft SEIS.

On February 24, 2012, the NRC initiated the scoping process by issuing a *Federal Register* notice (77 FR 11171). This notified the public of the staff's intent to prepare a plant-specific supplement to the GEIS regarding the application for renewal of the Callaway operating license. The plant-specific supplement to the GEIS is also referred to as the Supplemental Environmental Impact Statement or SEIS. The SEIS will be prepared in accordance with 10 CFR Part 51.

The scoping process provides an opportunity for public participation to identify issues to be addressed in the SEIS and to highlight public concerns and issues. The notice of intent identified the following objectives of the scoping process:

- Define the proposed action
- Determine the scope of the SEIS and identify significant issues to be analyzed in depth
- Identify and eliminate peripheral issues
- Identify any environmental assessments (EAs) and other environmental impact statements (EISs) being prepared that are related to the SEIS
- Identify other environmental reviews and consultation requirements
- Indicate the schedule for preparation of the SEIS
- Identify any cooperating agencies
- Describe how the SEIS will be prepared

The NRC's proposed action is whether to renew the Callaway operating license for an additional 20 years.

The scope of the SEIS includes an evaluation of the environmental impacts of license renewal and reasonable alternatives to license renewal. The "Scoping Comments and Responses" section of this report includes specific issues identified by the comments. The subsequent NRC responses explain if the issues will be addressed in the SEIS and, if so, where they will likely be addressed.

Throughout the scoping process, the staff identified and eliminated issues that were not directly related to the environmental review. This report provides responses to comments that were determined to be out of the scope of this review.

The NRC is required to consult with the U.S. Fish and Wildlife Service under Section 7 of the Endangered Species Act in order to evaluate the potential impacts of continued operation on Federally-listed endangered species. In order to fulfill its obligations under the National Historic Preservation Act, the NRC initiated consultation with the Advisory Council on Historic Preservation and the Missouri State Historic Preservation Office.

The NRC staff expects to publish the draft SEIS in November 2013.

The NRC, as an independent regulatory agency, routinely and extensively consults with Federal, State, Tribal, and local entities during development of EISs and EAs. The staff did not identify any cooperating agencies for this review.

The SEIS will be prepared by the staff with contract support from Ecology and Environment, Inc., and Pacific Northwest National Laboratory.

The NRC invited the applicant; Federal, State and local government agencies; Tribal governments; local organizations; and individuals to participate in the scoping process by providing oral comments at the scheduled public meetings or by submitting written comments before the end of the scoping comment period on April 24, 2012. The scoping process included two public meetings which were held on March 14, 2012, at Fulton City Hall, 18 East 4<sup>th</sup> Street, Fulton, MO 65251. The NRC issued press releases, purchased newspaper advertisements, emailed information to State and local government agencies and delegates, and distributed flyers locally to advertise these meetings. Approximately 50 people attended the meetings. Each session began with NRC staff members providing a brief overview of the license renewal process and the NEPA environmental review process. Following the NRC's prepared statements, the floor was opened for public comments. Eight attendees provided oral comments that were recorded and transcribed by a certified court reporter. One attendee asked a question related to storage of waste during the question and answer session of the evening meeting and that question has been included here due to the June 8, 2012, decision made by the U.S. Court of Appeals for the District of Columbia to vacate the NRC's Waste Confidence Decision and Rule. The transcripts of the comments from these meetings are included at the end of this report. The NRC issued a summary of the scoping meetings on April 11, 2012 (NRC 2012).

All documents associated with this scoping process are available for public inspection in the NRC Public Document Room (PDR), located at One White Flint North, 11555 Rockville Pike, Rockville, Maryland 20852, or from the NRC's Agencywide Documents Access and Management System (ADAMS). The ADAMS Public Electronic Reading Room is accessible at <http://www.nrc.gov/reading-rm/adams.html>. Persons who encounter problems in accessing documents in ADAMS should contact the NRC's PDR Reference staff by telephone at 1-800-397-4209 or 301-415-4737 or by e-mail at [pdr.resource@nrc.gov](mailto:pdr.resource@nrc.gov). The ADAMS accession number for each document is listed below in Table 1.

In addition to the comments received at the meetings, the NRC also received two comments on [www.Regulations.gov](http://www.Regulations.gov), both referencing the review. At the conclusion of the scoping period, the staff reviewed the transcripts, meeting notes, and all written material received in order to identify individual comments. Each comment was marked with a unique identifier including the Commenter ID (specified in Table 1) and a comment number, allowing each comment to be traced back to the transcript or [www.Regulations.gov](http://www.Regulations.gov) submittal (see example in Figure 1).

**Figure 1. Key to Identifiers**

"My name is John Doe <sup>(a)</sup> and this comment relates to alternative energy sources.	}	1 <sup>(b)</sup> -1 -AL
I would also like to discuss my comments that relate to Aquatic Resources ..."	}	1 -2 <sup>(c)</sup> -AQ
"My name is Jane Doe and my comment relates to Aquatic Resources .. "	}	2 -1 -AQ <sup>(d)</sup>

- (a) Commenter name identified in Table 1.
- (b) Commenter ID specified in Table 1.
- (c) Sequential comment number
- (d) Technical category, presented in Table 2 and Table 3

Table 1 identifies the individuals providing comments and the assigned Commenter ID. For oral comments, the individuals are listed in the order in which they spoke at the public meeting. Table 1 also includes the accession numbers of each source of comments in order to locate the original reference in ADAMS.

Comments were consolidated and placed into 1 of 27 technical issue categories, which are presented in Table 2. These categories are based on the topics that will be contained within the staff's SEIS for Callaway, as outlined by the GEIS.

Once comments were grouped according to subject area, the staff determined the appropriate action for the comment. The action or resolution for each comment is described in the staff's responses in this report. Table 3 represents the location where the response to each technical category begins.

**Table 1. Individuals Providing Comments During The Scoping Comment Period**  
*Each commenter is identified along with their affiliation and how their comment was submitted.*

Commenter	Affiliation (if stated)	ID	Comment Source	ADAMS Accession Number
Ed Smith	State Energy Director, Missouri Coalition for the Environment	1	Afternoon scoping meeting	ML12095A400
Pamela Murray	Alderman, City of Holts Summit	2	Afternoon scoping meeting	ML12095A400
Kay Drey	Member of Board of Directors, Beyond Nuclear	3	Afternoon scoping meeting	ML12095A400
			Articles submitted	ML12101A419 ML12101A423
Ruth Shaefer	Resident	4	Afternoon scoping meeting	ML12095A400
Bill Johnson	City Administrator, Fulton, MO	5	Afternoon scoping meeting	ML12095A400



Commenter	Affiliation (if stated)	ID	Comment Source	ADAMS Accession Number
Frank Wise	Resident	6	Evening scoping meeting	ML12096A386
LeRoy Benton	Mayor, City of Fulton, MO	7	Evening scoping meeting	ML12096A386
Doc Fritzer	County Commissioner, Callaway County, MO	8	Evening scoping meeting	ML12096A386
Courtney Johnson	Resident	9	Evening scoping meeting	ML12096A386
Anonymous	Missouri	10	www.Regulations.gov	ML12062A071
Kurt Wadzinski	Bureau of Land Management	11	www.Regulations.gov	ML12076A124

**Table 2. Technical Issue Categories.** Each comment was placed in the appropriate category. For Callaway, the comments fell into eight of the categories shown below.

Code	Technical Issue	Code	Technical Issue
AM	Air Quality and Meteorology	LR	License Renewal and NEPA Process
AL	Alternatives	NO	Noise
AE	Aquatic Ecology	NW	Non-Radiological Waste
CI	Cumulative Impacts	OR	Opposition to License Renewal
DC	Decommissioning/Deregulation	OS	Outside of Scope <sup>(a)</sup>
EC	Environmental Concerns	PA	Postulated Accidents & SAMA
ED	Editorial	PS	Protected Species and Habitats
EJ	Environmental Justice	RB	Radiological Impacts to Biota
FC	Fuel Cycle	RW	Radiological Waste
GE	Geology	SE	Socioeconomics
GW	Groundwater	SR	Support for License Renewal
HA	Historical and archaeological resources	SW	Surface Water
HH	Human Health	TE	Terrestrial Ecology
LU	Land Use		

<sup>(a)</sup> Outside of Scope are those comments that pertain to issues that are not evaluated during the environmental review of license renewal and include, but are not limited to, issues such as need for power, emergency preparedness, safety, security, and terrorism.

**Table 3. Comment Response Location**

<b>Comment Category</b>	<b>Page</b>
Alternative Energy Sources	8
Geology	8
License Renewal NEPA Process	9
Opposition to License Renewal	9
Outside of Scope	9
Postulated Accidents	12
Radiological Waste	12
Support of License Renewal	12

The comments and suggestions received as part of the scoping process are documented in this section, and the disposition of each comment is discussed. The meeting transcripts and written comments are included in their original form at the end of this report. In those cases where no new environmental information was provided by the commenter, a brief response has been provided to the comment, and no further evaluation will be performed.

The preparation of the SEIS will take into account all the relevant issues raised during the scoping process. The SEIS will address both Category 1 and 2 issues, along with any new information identified as a result of the scoping process. The SEIS will rely on conclusions supported by information in the GEIS for Category 1 issues and will include analysis of Category 2 issues and any new and significant information. The NRC will issue a draft SEIS for public comment. The comment period will offer the next opportunity for the applicant; interested Federal, State, and local government agencies; Tribal governments; local organizations; and other members of the public to provide input to the NRC's environmental review process. The comments received on the draft SEIS will be considered in the preparation of the final SEIS. The final SEIS, along with the staff's safety evaluation report (SER), will provide the basis for the NRC's decision on the Ameren application to renew the Callaway license.

**Callaway Plant, Unit 1  
Scoping Comments and Responses**

**1. Alternative Energy Sources (AL)**

**Comment:** The following comment has been categorized under the resource area of Alternative Energy Sources. The comment expresses opposition to nuclear power and the need to invest in clean, renewable energy sources such as wind and solar.

**Identifiers:** 10-5-AL

**Response:** *The staff will evaluate all reasonable alternatives, including the no-action alternative in Chapter 8 of the SEIS. In this chapter, the staff examines the potential environmental impacts of alternatives to license renewal for Callaway, as well as alternatives that may reduce or avoid adverse environmental impacts from license renewal, when and where these alternatives are applicable.*

*In evaluating alternatives to license renewal, the staff first selects energy technologies or options currently in commercial operation, as well as some technologies not currently in commercial operation but likely to be commercially available by the time the Callaway operating license expires in 2024.*

*Second, the staff screens the alternatives to remove those that cannot meet future system needs. Then, the remaining options are screened to remove those with costs or benefits that do not justify inclusion in the range of reasonable alternatives. Any alternatives remaining, then, constitute alternatives to the proposed action that the staff evaluates in depth throughout Chapter 8.*

*This comment is in scope and will be represented and responded to in Appendix A of the draft SEIS.*

**2. Geology (GE)**

**Comment:** The following comment has been categorized under the resource area of Geology. The comment addresses concerns related to Callaway being located in a flood plain, the New Madrid fault line, and Tornado Alley. This comment is also addressed within the Postulated Accidents section (Identifier 10-4-PA).

**Identifiers:** 10-3-GE

**Response:** *The staff will address the current geologic environment for Callaway in Chapter 2 of the SEIS. This comment is in scope and will be represented and responded to in Appendix A of the draft SEIS.*

### 3. License Renewal and NEPA Process (LR)

**Comment:** The following comment has been categorized under the resource area of License Renewal and NEPA Process. The comment expressed opposition to the deadline for submitting scoping comments and opposition to reliance on the 1996 GEIS.

**Identifiers:** 1-1-LR

**Response:** *This comment refers to the license renewal process. A summary of the license renewal process is provided in Chapter 1 of the SEIS. This comment will be represented and responded to in Appendix A of the draft SEIS.*

**Comment:** The following comments are general in nature and relate to the license renewal process.

**Identifiers:** 4-1-LR, 11-1-LR

**Response:** *These comments provide no new and significant information and will not be evaluated further in the development of the draft SEIS.*

### 4. Opposition to License Renewal (OR)

**Comment:** The following comment has been categorized under the area of Opposition to License Renewal. The comment is general in nature and expresses opposition to nuclear power.

**Identifiers:** 3-1-OR

**Response:** *The comment provides no new and significant information and will not be evaluated further in the development of the SEIS.*

### 5. Outside of Scope (OS)

**Comment: 1-2-OS;** The Coalition demands that the Supplemental GEIS address the environmental applications of the Fukushima Daiichi Nuclear Reactor accident, including the environmental risks posed by the NRC's apparent decision to postpone implementation of a number of the Fukushima Task Force recommendations for safety and environmental protection upgrades until some undetermined future time. The Supplemental GEIS should address all the Fukushima Task Force recommendations that are relevant to Callaway by (A) identifying which recommendations have been implemented and explaining how they have been implemented. And (B) identifying all recommendations whose implementation has been postponed or explaining how that postponement will affect the safety and environmental risks posed by the reactor.

**Comment: 10-1-OS;** Considering the history of nuclear disasters and what happened last year to the Fukushima Daiichi nuclear plant, I believe it unwise for the United States to continue to license nuclear reactors generally. Not only is there no permanent solution to the storage of the dangerous waste which results from energy generation, but it is also a very unsafe form of

energy production. Parts of this comment are also addressed within the Radioactive Waste section (Identifier 10-2-RW).

**Response:** *These comments discuss safety concerns and implications for Callaway as related to the events surrounding the accident at the Fukushima Da-ichi nuclear power plant in Japan. The NRC continues to evaluate and act on the lessons learned from the March 2011 nuclear accident in Japan to ensure that appropriate safety enhancements are implemented at nuclear power plants here in the U.S. In accordance with Commission direction, the NRC's activities are being led by a steering committee comprised of senior NRC management. Additionally, the NRC established the Japan Lessons Learned Project Directorate, a group of over 20 full-time employees focused exclusively on implementing the lessons learned. The public can access additional information regarding the NRC response to the Japan nuclear accident on the NRC's public website.*

*On March 12, 2012, the NRC issued the first regulatory requirements for the nation's operating reactors based on the lessons-learned at Fukushima Daiichi. The NRC issued three orders requiring safety enhancements of operating reactors, construction permit holders, and combined license holders. These orders require nuclear power plants to implement safety enhancements related to (1) mitigation strategies to respond to extreme natural events resulting in the loss of power at plants, (2) ensuring reliable hardened containment vents, and (3) enhancing spent fuel pool instrumentation. The plants were required to promptly begin implementation of the safety enhancements and complete implementation within two refueling outages or by December 31, 2016, whichever comes first. In addition, the NRC issued a request for information, requesting each reactor reevaluate the seismic and flooding hazards at their site using present-day methods and information, conduct walk-downs of their facilities to ensure protection against the hazards in their current design basis, and reevaluate their emergency communications systems and staffing levels.*

*The NRC's environmental review is confined to environmental matters relevant to the extended period of operation requested by the applicant. The regulations governing the environmental review are contained in Title 10 of the Code of Federal Regulation (10 CFR) Part 51, and the regulations for the safety review are contained in 10 CFR Part 54. Because the two reviews are separate, operational safety issues and safety issues related to aging are outside the scope for the environmental review.*

*The principal safety concerns associated with license renewal are related to the aging of structures, systems, and components important to the continued safe operation of the facility. When the plants were designed, certain assumptions were made about the length of time each plant would be operated. During the safety review for license renewal, the NRC must determine whether aging effects will be adequately managed so the original design assumptions will continue to be valid throughout the period of extended operation, or verify that any aging effects will be adequately managed. For all aspects of operation, there are existing regulatory requirements governing a plant that offer reasonable assurance of adequate protection if its license were renewed.*

*The NRC assesses plant performance continuously and communicates its assessment of plant performance in letters to the licensees. These assessment letters are available on a plant performance page for each plant, and are posted on the web site as they become available.*

The NRC assessment report for Callaway can be accessed at [http://www.nrc.gov/NRR/OVERSIGHT/ASSESS/CALL/call\\_chart.html](http://www.nrc.gov/NRR/OVERSIGHT/ASSESS/CALL/call_chart.html).

Therefore, these comments are not within the scope of the environmental review and will not be evaluated further in the development of the SEIS.

**Comment: 10-6-OS;** By the time the current license expires in 2024, the market for these alternative energy sources will be established, making the continued operation of a nuclear reactor inordinately expensive in comparison. No, there is no guarantee the price of solar and wind generated power will go down in the next twelve years, but history and economics tell us that as technology advances and supply and demand increase, prices go down.

**Response:** *This comment address concerns regarding the cost of energy. The regulatory authority over licensee economics (including the need for power) falls within the jurisdiction of the States and to some extent within the jurisdiction of the Federal Energy Regulatory Commission. The proposed rule for license renewal had included a cost-benefit analysis and consideration of licensee economics as part of the NEPA review. However, during the comment period, State, Federal, and licensee representatives expressed concern about the use of economic costs and cost-benefit balancing in the proposed rule and the GEIS. They noted that the President's Council on Environmental Quality (CEQ) regulations interpret NEPA to require only an assessment of the cumulative effects of a proposed Federal action on the natural and man-made environment and that the determination of the need for generating capacity has always been the States' responsibility. For this reason, the purpose and need for the proposed action (i.e., license renewal) is defined in the GEIS as follows:*

*The purpose and need for the proposed action (issuance of a renewed license) is to provide an option that allows for baseload power generation capability beyond the term of the current nuclear power plant operating license to meet future system generating needs. Such needs may be determined by other energy-planning decision-makers, such as State, utility, and, where authorized, Federal agencies (other than the NRC).*

Section 51.95(c)(2) of 10 CFR states that:

*The supplemental environmental impact statement for license renewal is not required to include discussion of need for power or the economic costs and economic benefits of the proposed action except insofar as such benefits and costs are either essential for a determination regarding the inclusion of an alternative in the range of alternatives considered or relevant to mitigation.*

The comment is outside the scope of the license renewal review and will not be evaluated further in the development of the draft SEIS.

#### **6. Postulated Accidents (PA)**

**Comment:** The following comment has been categorized under the area of Postulated Accidents. The comment expresses concern related to the potential for natural hazards such as flooding, tornadoes, and earthquakes to affect Callaway. This comment also addresses the implications for Callaway as related to the events surrounding the accident at the Fukushima Dai-ichi nuclear power plant in Japan. This comment is also addressed within the Geology section (Identifier 10-3-GE).

**Identifiers:** 10-4-PA

**Response:** *The staff will address postulated accidents and the potential for new and significant information related to severe accident mitigation alternatives in Chapter 5 of the draft SEIS. This comment is in scope and will be represented and responded to in Appendix A of the draft SEIS.*

#### **7. Radiological Waste (RW)**

**Comment:** The following comments have been categorized under the resource area of Radiological Waste. The comments express concern related to the generation and storage of radioactive waste and the impact to the environment.

**Identifiers:** 6-1-RW, 10-2-RW

**Response:** *The staff will address radioactive waste management in Section 2.1.2 of the SEIS. These comments are in scope and will be represented and responded to in Appendix A of the draft SEIS.*

#### **8. Support for License Renewal (SR)**

**Comment:** The following comments have been categorized under the area of Support for License Renewal. These comments are general in nature and express support for nuclear power, Ameren, or license renewal of Callaway.

**Identifiers:** 2-1-SR, 5-1-SR, 7-1-SR, 8-1-SR, 9-1-SR

**Response:** *These comments provide no new and significant information and will not be evaluated further in the development of the SEIS.*

## References

10 CFR 51. *Code of Federal Regulations*, Title 10, *Energy*, Part 51, "Environmental Protection Regulations for Domestic Licensing and Related Regulatory Functions."

[Ameren] Ameren Missouri. 2011. "License Renewal Application, Callaway Plant Unit 1, Facility Operating License No. NPF-30." December 15, 2011. Agencywide Documents Access and Management System (ADAMS) Accession No. ML1135303720.

National Environmental Policy Act of 1969 (NEPA). 42 U.S.C. 4321, et seq.

[NRC] U.S. Nuclear Regulatory Commission. 1996. *Generic Environmental Impact Statement for License Renewal of Nuclear Plants*, NUREG-1437, Volumes 1 and 2, Washington, D.C., ADAMS Accession Nos. ML040690705 and ML040690738.

[NRC] U.S. Nuclear Regulatory Commission. 1999. *Generic Environmental Impact Statement for License Renewal of Nuclear Plants, Main Report*, "Section 6.3 – Transportation, Table 9.1, Summary of Findings on NEPA Issues for License Renewal of Nuclear Power Plants, Final Report," NUREG-1437, Volume 1, Addendum 1, Washington, D.C., ADAMS Accession No. ML040690720.

[NRC] U.S. Nuclear Regulatory Commission. 2012. Summary of Public Scoping Meetings Conducted Related to the Review of the Callaway Plant, Unit 1, License Renewal Application. April 11, 2012. ADAMS Accession No. ML12089A099

[NRC] U.S. Nuclear Regulatory Commission. 2013. *Generic Environmental Impact Statement for License Renewal of Nuclear Plants*, NUREG-1437, Revision 1, Volumes 1, 2, and 3, Washington, D.C., June 2013. ADAMS Accession Nos. ML13106A241, ML13106A242, and ML13106A244.

## Comment Letters and Meeting Transcripts

The comment letters and public scoping meeting transcripts are attached to this report.



1 to thank the Nuclear Regulatory Commission for having  
2 this public meeting today.

3 So the Missouri Coalition -- I should have  
4 started reading my document first. The Missouri  
5 Coalition for the Environment appreciates the  
6 opportunity to submit comments to the Nuclear  
7 Regulatory Commission regarding the scope of the  
8 Supplement to the Generic Environmental Impact  
9 Statement of the license renewal for the Callaway  
10 Nuclear Reactor.

11 The Missouri Coalition for the Environment  
12 is a 42-year old independent statewide environmental  
13 non-profit. It includes members living near the  
14 Callaway Nuclear Reactor. The Coalition has a long  
15 history of legal intervention with the Callaway  
16 Reactor that goes back four decades. Our long-  
17 standing concern has been one of public safety and  
18 protection of our environment.

19 The Coalition plans to intervene in the  
20 upcoming license proceedings regarding the Union  
21 Electric Company's license for renewal application.

22 As a preliminary matter, we request that the NRC  
23 extend the deadline for submitting written scoping  
24 comments until 30 days after the deadline for  
25 submitting hearing requests and contentions. That

1-1-LR

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1 date is April 24th.

2           So while we believe it is appropriate for  
3 the NRC to hold public meetings now in order to  
4 explain a license renewal process to the public, it is  
5 unreasonable and unfair to require the public to  
6 comment on the scope of the Supplemental GEIS at this  
7 stage of the proceeding. When the Missouri Coalition  
8 for the Environment and other members of the public  
9 are reviewing the license renewal application that's  
10 four hundred and -- excuse me -- the 1,200 page highly  
11 technical license renewal application and the 400 page  
12 highly technical environmental report.

13           With respect to the scope of the  
14 Supplemental Generic Environmental Impact Statement,  
15 the Missouri Coalition for the Environment has two  
16 overarching concerns. First, we believe it is  
17 unacceptable for the NRC to rely on the 1996 GEIS for  
18 the renewal of the Callaway license because it's  
19 severely out of date. The NRC should postpone  
20 preparation of the Supplemental GEIS for the Callaway  
21 Unit until it is finalized and revised GEIS that it  
22 issued for comment in July of 2009. In the  
23 alternative it should prepare an EIS, Environmental  
24 Impact Statement, for Callaway that addresses all  
25 environmental issues and does not rely at all on a 16-

1-1-LR  
Continued

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year-old document.  
  
Given that the draft version of the revised GEIS was issued fully two and a half years ago, continued reliance on this old document is utterly unjustified.

1-1-LR  
Continued

Second the Coalition demands that the Supplemental GEIS address the environmental applications of the Fukushima Daiichi Nuclear Reactor accident, including the environmental risks posed by the NRC's apparent decision to postpone implementation of a number of the Fukushima Task Force recommendations for safety and environmental protection upgrades until some undetermined future time.

1-2-OS

The Supplemental GEIS should -- excuse me -- the Supplemental GEIS should recommendations -- excuse me -- I'll just start over.

The Supplemental GEIS should address all the Fukushima -- should address all the Fukushima Task Force recommendations that are relevant to Callaway.

By (A) identifying which recommendations have been implemented and explaining how they have been implemented.

And (B) identifying all recommendations whose implementation has been postponed or explaining

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1 how that postponement will affect the safety and  
2 environmental risks posed by the reactor.

1-2-OS  
Continued

3 Thank you for your time.

4 MS. SALTER: Thank you, Mr. Smith.

5 I would now invite Pamela Murray to come  
6 up to the podium. Ms. Murray is an Alderman with the  
7 city of Holts Summit.

8 MS. MURRAY: Thank you for this  
9 opportunity to address everyone. I am a local elected  
10 official. I'm not an environmentalist. But I do have

11 some experience being a Callaway County resident. And  
12 that is that Ameren Missouri has had a history of  
13 being very responsive whenever an issue has been  
14 raised. And I'm sure that when the final regulations  
15 are implemented that that will continue. I certainly  
16 hope it will. And certainly I feel that past behavior  
17 and this case responsiveness is a good predictor of  
18 future behavior. So I do not have any specific  
19 concerns regarding that.

2-1-SR

20 Being active in my community, I have been  
21 involved with Ameren Missouri and found them to be a  
22 good corporate citizen. I'd like to speak briefly  
23 about two projects Ameren Missouri has been involved  
24 with. One of those is a tree planting in Holts  
25 Summit. And they were a financial contributor. They

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1 also provided a great deal of labor when it came time  
2 to plant hundreds of trees and shrubs in Holts Summit.  
3 They provided expertise for our environmental project.  
4 They also throughout the state of Missouri are  
5 involved in the Missouri Relief Program. They are a  
6 major benefactor for this program which provides free  
7 trees to cities and non-profit corporations. And I  
8 just think that that demonstration for the respect for  
9 the environment should also be taken into  
10 consideration. And I'd like to thank the NRC and the  
11 City of Fulton for providing this facility.

2-1-SR  
Continued

12 Thank you.

13 MS. SALTER: Thank you, Ms. Murray.

14 I'd like to invite Kay Drey up to the  
15 podium. Ms. Drey is with Beyond Nuclear.

16 MS. DREY: Hi, thank you for this, having  
17 this meeting today. My name is Kay Drey. I live in  
18 St. Louis. And I've been a member of the Missouri  
19 Coalition for the Environment since its creation. And  
20 I'm also a member of the Board of Directors at Beyond  
21 Nuclear, an organization located in Tacoma Park,  
22 Maryland.

23 And all I'm here today is just to submit  
24 for the record of today's scoping meeting three  
25 documents. One is a brand new copy of the Economist.

3-1-OR

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1 And its cover is called, "Nuclear Energy, the Dream  
2 That Failed." And I really like the cover. And there  
3 are some long reports in here. So I think this is  
4 something that may be of interest to some of you.

3-1-OR  
Continued

5 And then two pamphlets that I helped  
6 write. One is called, "Dirty, Dangerous, and  
7 Expensive: The Verdict Is in on Nuclear Power."  
8 These are not in favor of nuclear power. And the  
9 other one is called "The Lethal Legacy of the Atomic  
10 Age: 1942 to the Year 2012," which is now to  
11 infinity. And it says, "A mountain of waste 70 years  
12 high, it's time to stop making it."

13 And I have more copies if anyone would  
14 like a copy.

15 And so again, I do thank you for the  
16 opportunity to have this meeting here.

17 MS. SALTER: With that, I'd like to invite  
18 Ruth Schaefer.

19 MS. SCHAEFER: I'd like to defer my  
20 comments. I think the gentleman from the Coalition  
21 has said it.

4-1-LR

22 MS. SALTER: Okay, you are our last  
23 speaker.

24 Oh, we have another card. All right. I  
25 invite Bill Johnson to the podium. Please introduce

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1 yourself and, if you're affiliated with an  
2 organization, you can mention that too.

3 MR. JOHNSON: Good afternoon. My name is  
4 Bill Johnson. I'm the City Administrator of Fulton,  
5 Missouri, and I have been for the past 16 and a half,  
6 17 years. I'm here actually speaking as a citizen  
7 because the City Council has not of yet taken an  
8 official position on this. But I am 100 percent  
9 confident the City Council would be behind every word  
10 that I am about to say.

11 The citizens of Fulton like the Ameren  
12 plant where it is. We like the operation. We like  
13 the staffing. We like the safety levels. We are  
14 incredibly involved in the safety review of the  
15 facilities out there. If anyone is concerned about  
16 the safety record, our records are available online if  
17 you want to take the time to look. The inspections  
18 are online. You can even ask for the NRC to mail you  
19 -- email you, put you on a list and get an email to  
20 you if you'd like.

21 We've had a great positive relationship  
22 with the nuclear plant for the 27 years it's been in  
23 operation and for the 10 years or so before that when  
24 it was under construction. We hope to be able to  
25 maintain that strong relationship for a long time.

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5-1-SR

1                   What's good for Fulton, what's good for  
2 Callaway County, what's good for the State of  
3 Missouri, is good for the Callaway Plant and vice  
4 versa. What is good for us is good for them. It's a  
5 great working relationship.

5-1-SR  
Continued

6                   As I kind of said, having been here for 17  
7 years, I have been involved in dozens and dozens of  
8 drills associated with the safety performance of the  
9 plant. The city is actively involved when it comes to  
10 the drills. The City Administrator, myself, is there.  
11 The Mayor is there, the Police Chief, Fire Chief,  
12 planning officials, city engineers, city utilities.  
13 We through our actions support and endorse the Ameren  
14 plant.

15                   And many times throughout the year, Ameren  
16 comes to us and says, "Is there anything we can do for  
17 you?" Sometimes we take them up on it; sometimes we  
18 don't. But they are an incredible corporate citizen  
19 to the community of Fulton.

20                   And like I said, we would like to  
21 encourage the NRC to agree with this extension.

22                   Thank you.

23                   MS. SALTER: Thank you, very much. I do  
24 believe unless there's another yellow card back there  
25 that we don't have anyone else signed up to make a

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1 So if you have a question, you can raise  
2 your hand and I'll bring the microphone to you.

3 All right, a gentleman in the back.

4 Please start by introducing yourself.

5 MR. WISE: My name is Frank Wise of the  
6 city of Jefferson. I'm just curious if the waste  
7 storage situation will have any effect on the license  
8 renewal. I hear that the federal government has not  
9 yet achieved a permanent waste storage. How will that  
10 affect the renewal?

6-1-RW

11 MS. SALTER: Brian, you going to talk  
12 about that?

13 MR. HARRIS: The waste storage, that's a  
14 separate regulatory process in another office within  
15 the NRC. So we focus specifically on the license  
16 renewal process. We are aware that's managed another  
17 office within the agency.

18 MS. SALTER: Is that something you will  
19 take into consideration in the license renewal or  
20 there's another process?

21 MR. HARRIS: That's another process in  
22 which they'll handle your question.

23 MS. SALTER: Dennis.

24 MR. MOREY: I just want to clarify on  
25 that, the waste storage issue. That what we're doing

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1 I'm sure that the endorsement will happen in the very  
2 near future.

3 Ameren's safety record has been an  
4 excellent one. And I know that safety is of the  
5 highest priority at the plant just through my dealings  
6 and associations with the Ameren personnel throughout  
7 the community. I endorse their request for license  
8 renewal of the current facility and encourage a  
9 positive response to their request.

10 Ameren's energy campus is a vital part of  
11 Callaway County's and the state of Missouri's economy.  
12 As the Environmental Protection Agency regulations to  
13 continue to make coal fired plants cost prohibitive to  
14 operate, nuclear plants such as the one here at  
15 Callaway will be of vital importance to the  
16 availability and reliability of electricity to the  
17 Midwest of the state of Missouri. And of course  
18 without adequate economical supply of electric energy,  
19 our national and regional economies will be extremely  
20 negatively impacted.

21 Again, thank you for your time. And again  
22 I endorse the Ameren's request for a license renewal.

23 Thank you.

24 MS. SALTER: Thank you, Mr. Benton.

25 We now invite Doc Kritzer to come up.

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7-1-SR

1 He's a County Commissioner for Callaway County.

2 MR. FRITZER: Good evening. It's Fritzer,  
3 but I've been called a lot worse. I hadn't really  
4 intended or planned to address the group tonight.  
5 I've been out of town today and our Presiding  
6 Commissioner came over this afternoon's meeting. And  
7 I made a few notes when I found out he had already  
8 addressed it. I understand you all had good  
9 attendance, so that was good.

10 On behalf of the County Commission, our  
11 structure in Missouri -- I don't know if -- some of  
12 different states are all different on it. But we have  
13 three County Commissioners in each one of our  
14 counties. And Missouri has 114 counties. I also  
15 happen to be the President of the County  
16 Commissioner's Association for the state of Missouri.

17 I was in South Missouri earlier today for  
18 a meeting down there with a regional group of the  
19 commissioners. And one of the questions they asked  
20 about was the status of the current Ameren plant and  
21 what's going to happen with Unit 2. And I know this  
22 isn't a discussion for Unit 2. But everyone is very  
23 supportive of that, too, for the record.

24 Ameren has been a very good partner in the  
25 community as LeRoy identified as a resident of

8-1-SR  
Continued

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1 Callaway County since a few years ago. Back in the  
2 '50s, I moved here was to -- and ever since they  
3 started buying up the property to build the original  
4 plant with a lot of speculation on what's going to  
5 happen. But the fact that it's been in operation for  
6 over 25 years, we haven't turned green yet. I think  
7 everybody has finally accepted the fact we do have a  
8 good base load facility here.

9 What's impressed me the most with the  
10 operation down there is that they set high standards  
11 for themselves for safety and operations. And it's  
12 not just standards for this facility, but they want to  
13 be the industry standard. And that's always impressed  
14 me with the management down there.

15 And as we go through our emergency  
16 planning drills, we meet on a regular basis. Every  
17 other year we have a greater drill with the NRC. In  
18 the off year, we still have the drill. And from those  
19 exercises we have a chance to improve upon what we've  
20 learned from the previous exercise. Anything that's  
21 changed during the course of the year that's involved  
22 in the rollover in the personnel down there. So to  
23 keep everybody informed on what's going on and keep in  
24 touch on it. But I think those have been very  
25 beneficial.

8-1-SR  
Continued

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1 One of the best benefits I think we've  
2 seen from Callaway County is that an Emergency  
3 Preparedness that has made this county so much further  
4 ahead of other counties for natural disasters. And  
5 the advantage we've seen is that although most of our  
6 drills for probably 20 years were all focused on what  
7 would happen if there was an emergency at the Ameren  
8 plant, we've got the same partners and players with  
9 the ambulance, with the law enforcement, with the  
10 Sheriff's Department, with the ambulances. And it's  
11 given us an opportunity to be ready for tornados,  
12 other storms, any type of natural disaster.

13 And over the last couple of years, other  
14 counties have started trying to prepare for disasters.  
15 Joplin is a perfect example. Even at Branson in the  
16 past year. We are so much further ahead in this  
17 county than some of the other counties because of  
18 Ameren being located in Callaway County. So we're  
19 proud of that fact.

20 That's a big factor that we have, that  
21 Fulton and Callaway County have over a lot of other  
22 counties. So for that, I think that's another plus  
23 for Ameren being here.

24 I think I've pretty well covered all the  
25 facts. I've been sitting there trying to scribble a

8-1-SR  
Continued

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1 few notes. But we would be very supportive of the  
2 extension of this facility. A few years ago when they  
3 replaced the turbines in there, we knew they were  
4 going to be asking for an extension of another 20  
5 years. So we're very supportive of that and hope that  
6 takes place.

8-1-SR  
Continued

7 Thank you.

8 MS. SALTER: Thank you.

9 I have one final person that's signed up  
10 to speak. So if you're on the fence, now would be the  
11 time to give Dawn your card.

12 And with that, I'd like to invite our  
13 final commenter at least as of right now. Courtney  
14 Johnson.

15 MS. JOHNSON: Hi, good evening. My name  
16 is Courtney Johnson. And I'm 19 years old. I have  
17 lived in Fulton my entire life. So, you know, I grew  
18 up with a nuclear plant. It's always been right  
19 outside of town and that's just how it's always been  
20 since the time I grew up.

21 My generation sees the nuclear plant as  
22 jobs and opportunity as well as a provider of cost-  
23 effective, safe base load energy for our community.  
24 Many of my friends' parents work for the plant. And  
25 through the years I've heard a lot of very positive

9-1-SR

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1 comments about it from them.

2 Based on growing up here and seeing the  
3 professional career opportunities that Ameren  
4 provides, I decided many years ago that I would pursue  
5 a college degree that would make myself marketable to  
6 Ameren. I'm a student at Iowa State University  
7 studying chemical engineering and considering a minor  
8 in nuclear engineering. I can think of no better  
9 career than to be a chemical or nuclear engineer at  
10 the Callaway Nuclear Plant.

11 The extension being proposed at this  
12 hearing would provide me and those that came before me  
13 and those that will come after me job opportunities  
14 and clean, safe, reliable energy for many years to  
15 come. And I'd like to encourage the NRC to approve  
16 this license extension.

17 MS. SALTER: Thank you.

18 So with that, that was the last person  
19 that signed up. And I don't see Dawn with any other  
20 yellow cards. I'll give you one final chance before  
21 we move to close the meeting.

22 Okay, well, with that I'd like to thank  
23 everyone for coming and before I turn it over to  
24 Dennis for some final comments, a couple of quick  
25 things. We do have the evaluation forms in the back.

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9-1-SR  
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# PUBLIC SUBMISSION

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Comments Due: April 24, 2012
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**Docket:** NRC-2012-0001  
Receipt and Availability of Application for License Renewal

*2/24/2012*  
*97 FR 11171*

**Comment On:** NRC-2012-0001-0003  
License Renewal Application for Callaway Plant, Unit 1, Union Electric Company; Intent to Prepare Environmental Impact Statement

**Document:** NRC-2012-0001-DRAFT-0001  
Comment on FR Doc # 2012-04315

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## Submitter Information

**Address:** Missouri

## General Comment

- Considering the history of nuclear disasters and what happened last year to the Fukushima Daiichi nuclear plant, I believe it unwise for the United States to continue to license nuclear reactors generally. Not only is there no permanent solution to the storage of the dangerous waste which results from energy generation, but it is also a very unsafe form of energy production. The 10-1-OS
- Callaway reactor is located in a flood plain, Torando Alley, and near the New Madrid fault line, making this nuclear reactor susceptible to a variety of natural disasters, which was what ultimately did in Fukushima. We know that as buildings age they weaken, and nuclear reactors are no different. 10-2-RW
- Ameren Missouri needs to focus on making Missouri more energy efficient (the last I heard we were ranked 42/50 states in efficiency) and invest in clean, renewable energy sources. Ameren's own report in 2011 said there was no need for new generation and an old coal plant could be closed if they just invested in efficiency. Instead of doing this, they sought to charge ratepayers to build a new reactor, and have cut all but about \$1 million from their renewable energy programs. 10-3-GE,  
10-4-PA
- By the time the current license expires in 2024, the market for these alternative energy sources will be established, making the continued operation of a nuclear reactor inordinately expensive in comparison. No, there is no guarantee the price of solar and wind generated power will go down in the next twelve years, but history and economics tell us that as technology advances and supply and demand increase, prices go down. 10-5-AL
- By the time the current license expires in 2024, the market for these alternative energy sources will be established, making the continued operation of a nuclear reactor inordinately expensive in comparison. No, there is no guarantee the price of solar and wind generated power will go down in the next twelve years, but history and economics tell us that as technology advances and supply and demand increase, prices go down. 10-6-OS

*SUNSI Review Complete*  
*Memplite = ADM-013*

*E-RIDS = ADM-03*  
*Call = C. Feller (CF5)*



# PUBLIC SUBMISSION

As of: March 14, 2012
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**Docket:** NRC-2012-0001  
Receipt and Availability of Application for License Renewal

**Comment On:** NRC-2012-0001-0003  
License Renewal Application for Callaway Plant, Unit 1, Union Electric Company; Intent to Prepare Environmental Impact Statement

**Document:** NRC-2012-0001-DRAFT-0002  
Comment on FR Doc # 2012-04315

*2/24/2012*  
*77FR 11171*

2

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**Government Agency:** BLM

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RULES & REGULATIONS

## General Comment

The Bureau of Land Management appreciates the opportunity to review and provide comments regarding Docket No. 50-483, NRC-2012-0001 (Callaway Plant Operating License Renewal). However, the BLM has no jurisdiction or authority with respect to this project, the agency does not have expertise or information relevant to this project, nor does the agency intend to submit comments regarding this project.

11-1-LR

*SUNSI Review Complete*  
*Template = ADM-013*

*E-REDS = ADM-013*  
*Case = C. Feller (CX45)*