

Group B

FOIA/PA NO: 2015-0194

RECORDS BEING RELEASED IN PART

The following types of information are being withheld:

- Ex. 1 ☐ Records properly classified pursuant to Executive Order 13526
- Ex. 2 ☐ Records regarding personnel rules and/or human capital administration
- Ex. 3 ☐ Information about the design, manufacture, or utilization of nuclear weapons
☐ Information about the protection or security of reactors and nuclear materials
☐ Contractor proposals not incorporated into a final contract with the NRC
☐ Other _____
- Ex. 4 ☐ Proprietary information provided by a submitter to the NRC
☐ Other _____
- Ex. 5 ☐ Draft documents or other pre-decisional deliberative documents (D.P. Privilege)
☐ Records prepared by counsel in anticipation of litigation (A.W.P. Privilege)
☐ Privileged communications between counsel and a client (A.C. Privilege)
☐ Other _____
- Ex. 6 ☒ Agency employee PII, including SSN, contact information, birthdates, etc.
☐ Third party PII, including names, phone numbers, or other personal information
- Ex. 7(A) ☐ Copies of ongoing investigation case files, exhibits, notes, ROI's, etc.
☐ Records that reference or are related to a separate ongoing investigation(s)
- Ex. 7(C) ☐ Special Agent or other law enforcement PII
☐ PII of third parties referenced in records compiled for law enforcement purposes
- Ex. 7(D) ☐ Witnesses' and Allegers' PII in law enforcement records
☐ Confidential Informant or law enforcement information provided by other entity
- Ex. 7(E) ☐ Law Enforcement Technique/Procedure used for criminal investigations
☐ Technique or procedure used for security or prevention of criminal activity
- Ex. 7(F) ☐ Information that could aid a terrorist or compromise security

Other/Comments: _____

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Moreno, Angel

From: Moreno, Angel
Sent: Friday, September 05, 2014 8:38 AM
To: Moreno, Angel
Subject: NRC Issues Mid-Cycle Assessments for Nation's Nuclear Plants: Callaway Plant
Attachments: 14-058.docx; CW 2014 MC ASSESSMENT LETTER ML14239A604.pdf
Categories: Blue Category

ML14239A604 is publicly available.

Hello everyone,

Attached is the latest mid-cycle performance assessment for the Callaway Plant. The plant is in Column 1 (the "licensee response column") and will receive a baseline-level of inspection.

As you may know, there are five columns in the NRC reactor oversight process action matrix, with the level of inspection heightened, respectively, for plants in Columns 2, 3, and 4. Plants in Column 5 are required to shut down.

At the bottom of this email and attached, you'll find the press release summarizing the results of the agency's review across the industry.

Please feel free to contact me if you have any questions.

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No: 14-058

September 4, 2014

CONTACT: Dave McIntyre, 301-415-8200

NRC Issues Mid-Cycle Assessments for Nation's Nuclear Plants

The Nuclear Regulatory Commission has issued mid-cycle assessment letters to the nation's 100 operating commercial nuclear power plants regarding their performance through the first half of 2014. The mid-cycle assessment period concluded June 30, with 90 plants in the two highest performance categories.

"These assessment letters are the result of a systematic NRC review of performance indicators and inspection findings at each domestic power reactor facility," said Scott Morris, director of the Division of Inspection and Regional Support in the Office of Nuclear Reactor Regulation. "In addition to ensuring that the nation's nuclear power plants are safe by inspecting them and rating their performance regularly, our goal in issuing these letters is to ensure all our stakeholders clearly understand the basis for our assessments of plant performance and the actions we are taking to address any identified performance deficiencies."

Of the 90 highest-performing reactors, 78 fully met all safety and security performance objectives and were inspected by the NRC using the normal "baseline" inspection program. Twelve reactors needed to resolve one or two items of low safety significance. For this performance level, regulatory oversight includes additional inspection and follow-up of corrective actions. Plants in this level are: Browns Ferry 3 (Ala.); Clinton (Ill.); Fermi 2 (Mich.); Fitzpatrick (N.Y.); Ginna (N.Y.); Grand Gulf (Miss.); LaSalle 2 (Ill.); Oconee 1 (S.C.); Point Beach 2 (Wisc.); Prairie Island 2 (Minn.); Waterford (La.); and Wolf Creek (Kan.). (Grand Gulf and LaSalle 2 have resolved their issues since the reporting period ended and have transitioned to the highest performing level.)

Eight nuclear reactors were in the third performance category with a degraded level of performance. For this category, regulatory oversight includes more NRC inspections, senior management attention and oversight focused on the cause(s) of the degraded performance. These plants were Arkansas Nuclear One 1 and 2 (Ark.); Browns Ferry 2 (Ala.); Duane Arnold (Iowa); Monticello (Minn.); Pilgrim (Mass.); Point Beach 1 (Wisc.); and Susquehanna 2 (Pa.). (Browns Ferry 2 has resolved some of its issues since the reporting period ended and has transitioned to the second highest performing level. Duane Arnold has resolved its issues since the reporting period ended and has transitioned to the highest performance level.)

One reactor, Browns Ferry 1 in Alabama, was in the fourth performance category through the end of the mid-cycle assessment period and required increased oversight because of a safety finding of high significance. However, since then, Browns Ferry 1 has transitioned to the second highest performing level after resolving its significant performance issues.

The Fort Calhoun plant in Nebraska is currently under a special NRC oversight program distinct from the normal performance levels because of an extended shutdown associated with significant performance issues. In December 2013, the NRC oversight panel cleared the unit to resume operations, but the plant will remain under special oversight until the panel returns it to regular oversight. Therefore, the plant will not receive a mid-cycle assessment letter. Further details on NRC's oversight activities at Fort Calhoun are available on the NRC's webpage on [Special NRC Oversight at Fort Calhoun Station](#).

The NRC routinely updates information on each plant's current performance and posts the latest information as it becomes available to the [action matrix summary](#). The annual assessment letters sent to each operating reactor are also available through the NRC's webpage on the [Reactor Oversight Process](#). Annual construction oversight assessments for new reactors at the [Vogtle and Summer sites](#) and at [Watts Bar 2](#) are also on the NRC website.

Every six months each plant receives either a mid-cycle or annual assessment letter along with an NRC inspection plan.

Moreno, Angel

From: Moreno, Angel
Sent: Friday, September 05, 2014 4:22 PM
To: Moreno, Angel (Angel.Moreno@nrc.gov)
Subject: (Schedule Change) NRC Issues Final Safety Evaluation Report for Callaway Nuclear Power Plant License Renewal Application
Attachments: ML14232A332.pdf; ML14232A380.pdf ML14232A332 and ML14232A380 are publicly available.
Categories: Blue Category

Hello Everyone:

Working off Jenny's last email you all. This email is to inform you of a change in the safety review schedule for the Callaway Nuclear Power Plant license renewal review. Highlighted below (TBD to "12/2014") are the recent changes.

Thanks,

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From: Weil, Jenny
Sent: Thursday, August 28, 2014 5:14 PM
Subject: Re: NRC Issues Final Safety Evaluation Report for Callaway Nuclear Power Plant License Renewal Application

Hello everyone,

NRC has **issued a final safety evaluation report** on Union Electric Co.'s request for a **20-year license extension** for the **Callaway** nuclear power plant. This marks an important milestone in the review. There are two parts – an environmental review and a safety/technical review. As you can see from the schedule below (scroll down past the press release), the final supplemental environmental impact statement is targeted for completion in the November timeframe. There are a few other steps after the staff completes its review, including a meeting before NRC's Advisory Committee on Reactor Safeguards (highlighted below).

I've attached the safety evaluation report and cover letter in case you wanted to take a look.

Last item to let you know about is that we have hired a new congressional affairs officer who will be covering Region IV plants (including Callaway). You will be able to reach **Angel Moreno** at angel.moreno@nrc.gov or 301-415-1697. (His number isn't working yet, so use his cell at (b)(6)) I will be Angel's backup and will cover for him when he's away from the office.

If you have any questions, please feel free to contact either me or Angel.

~Jenny

Jenny Weil
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No: 14-057
CONTACT: David McIntyre, 301-415-8200

August 28, 2014

NRC Issues Final Safety Evaluation Report for Callaway Nuclear Power Plant License Renewal Application

The Nuclear Regulatory Commission staff has issued its final safety evaluation report (SER) for the proposed renewal of the operating license for the Callaway nuclear power plant in Fulton, Mo. The report concluded there are no technical issues to preclude license renewal for an additional 20 years of operation.

Callaway is a pressurized water reactor located approximately 25 miles northeast of Jefferson City. Union Electric Co. submitted an application in December 2011 to renew the license for an additional 20 years, through Oct. 18, 2044.

The SER documents the results of the NRC staff's review of the license renewal application and site audit of Callaway's aging-management programs to address the safety of plant operations during the period of extended operation. Overall, the results show that Union Electric has identified actions to manage the effects of aging in the appropriate systems, structures and components of the plant, and that their functions will be maintained during the period of extended operation.

Issuing the final SER is a significant milestone in the license renewal review process. This process proceeds along two tracks – one for review of safety issues and another for environmental issues. The staff published a draft supplemental environmental impact statement for public comment in February. The final SEIS is expected to be published in November.

The SER and the license renewal application have been provided to the Advisory Committee on Reactor Safeguards, an independent body of experts that advises the Commission on reactor safety matters. The committee is scheduled to discuss the SER during a meeting Oct. 2 and then submit its recommendation on license renewal to the Commission.

Documents related to Callaway's license renewal application, including the SER, as well as information about the license renewal process, are located on the NRC's website.

Milestones	Schedule Date	Actual Date
Receive license renewal application (LRA)	12/19/11	12/19/11
Publish Federal Register Notice (FRN) – LRA availability	01/2012	01/03/12
Publish FRN – acceptance/rejection and opportunity for hearing	02/2012	02/24/12
Publish FRN – environmental scoping meeting	02/2012	02/24/12
Public Meeting – License Renewal Overview and Environmental Scoping meeting	03/14/12	03/14/12
Deadline for filing hearing requests and petitions for intervention	04/24/12	04/24/12
Environmental scoping period ends	04/24/12	04/24/12
Audit – Scoping & Screening Audit Methodology	04/16/12	04/16/12
Audit – Aging Management Programs	04/30/12	04/30/12
Audit – Environmental	05/22/12	05/22/12
Issue safety evaluation report (SER) with open items	04/2013	04/23/13
Advisory Committee on Reactor Safeguards (ACRS) Subcommittee meeting	05/2014	05/22/14
Issue draft supplemental environmental impact statement (SEIS)	02/2014	02/12/14
Publish FRN – draft SEIS available for comments	02/2014	02/21/14
Public Meeting – draft SEIS meeting	03/2014	03/19/14
End of draft SEIS comment period	04/2014	04/07/14
Issue final SER	09/2014	08/21/14
ACRS full committee meeting	10/2014	
Issue final SEIS	11/2014	
U.S. Environmental Protection Agency FRN Published – availability of final SEIS	11/2014	
Decision – Director, Office of Nuclear Reactor Regulation (22 months if no hearing)	TBD 12/2014	
Commission decision (30 months if hearing)	TBD	

Moreno, Angel

From: Moreno, Angel
Sent: Friday, October 31, 2014 1:34 PM
To: Moreno, Angel (Angel.Moreno@nrc.gov)
Subject: CALLAWAY PLANT - NOTIFICATION OF INSPECTION OF TEMPORARY INSTRUCTION 2201/004, "INSPECTION OF IMPLEMENTATION OF INTERIM
Attachments: CWY 2014405-NonSGI-LTR-STM.DOCX
Categories: Blue Category

This attachment is publicly available as ML14304A195.

Hello Everyone,

On August 08, 2014, the U.S. Nuclear Regulatory Commission (NRC) completed a security temporary instruction inspection at the Callaway Plant.

NRC inspectors documented three findings of very low significance in this report. These findings involved violations of NRC requirements. Inspectors also documented four licensee identified violations which were determined to be of very low significance. These violations are listed in Section 4OA7 of this report.

The NRC is treating these violations as non-cited violations (NCVs) consistent with Section 2.3.2.a of the Enforcement Policy.

If you have any questions, please feel free to reach out to me.

Thanks.

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Moreno, Angel

From: Moreno, Angel
Sent: Monday, November 03, 2014 1:47 PM
To: Moreno, Angel
Subject: CALLAWAY PLANT – NRC INTEGRATED INSPECTION REPORT
Attachments: CWY 2014004-RP-TCH ML14302A784.pdf ML14302A784 is publicly available.
Categories: Blue Category

Hello Everyone,

Attached you will find NRC's October 29, 2014, Callaway Plant – Inspection Report.

NRC inspectors documented two findings of very low safety significance (Green) in this report. One finding involved a violation of NRC requirements. Further, inspectors documented a licensee-identified violation which was determined to be of very low safety significance in this report.

The NRC is treating these violations as non-cited violations (NCVs) consistent with Section 2.3.2.a of the NRC Enforcement Policy.

If you have any questions, please feel free to reach out to me.

Thanks.

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Moreno, Angel

From: Moreno, Angel
Sent: Friday, November 07, 2014 12:16 PM
To: Moreno, Angel (Angel.Moreno@nrc.gov)
Subject: Notice of Availability of the Final Supplemental Environmental Impact Statement for Callaway Plant, Unit 1

Categories: Blue Category

Hello Everyone,

The purpose of this email is to notify you that the U.S. Nuclear Regulatory Commission (NRC) staff has completed the final plant-specific Supplement 51 to NUREG-1437, "Generic Environmental Impact Statement for License Renewal of Nuclear Plants" (GEIS), regarding the renewal of Operating License NPF-30 for an additional 20 years of operation for the Callaway Plant, Unit 1 (Callaway).

Below is the Final Report Abstract:

This supplemental environmental impact statement has been prepared in response to an application submitted by Union Electric Company, a subsidiary of Ameren Corporation and doing business as Ameren Missouri (Ameren) to renew the operating license for Callaway Plant, Unit 1 (Callaway), for an additional 20 years.

This supplemental environmental impact statement includes the analysis that evaluates the environmental impacts of the proposed action and alternatives to the proposed action. Alternatives considered include replacement power from new natural-gas-fired combined-cycle (NGCC) generation; new supercritical pulverized coal-fired generation; new nuclear generation; a combination alternative that includes NGCC generation, wind power, and energy efficiency; and not renewing the license (the no-action alternative).

The U.S. Nuclear Regulatory Commission's (NRC's) recommendation is that the adverse environmental impacts of license renewal for Callaway are not great enough to deny the option of license renewal for energy planning decision makers. This recommendation is based on the following:

- (a) the analysis and findings in NUREG-1437, Volumes 1 and 2, Generic Environmental Impact Statement for License Renewal of Nuclear Plants;
- (b) the environmental report (ER) submitted by Ameren;
- (c) consultation with Federal, state, and local agencies; and
- (d) the NRC's environmental review and consideration of public comments received during the reviewing process.

You can access this report in our Public ADAMS recordkeeping system at: <http://adams.nrc.gov/wba/>. Under Content search please insert accession number: ~~ML14289A140~~ ML14289A140.

If you have any questions, please feel free to reach out.

Thanks.

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Moreno, Angel

From: Moreno, Angel
Sent: Friday, December 05, 2014 12:24 PM
To: 'Palmer, Downey (Blunt)'
Subject: RE: Callaway Plant- Event Notification

Categories: Blue Category

Hello Downey,

The operating mode describes the basic plant conditions. Stable plant conditions in Mode 3 with zero power describes the plant as having the reactor shut down, with the plant at normal operating temperature and pressure, and conditions not changing. To the NRC, this means there are no unexpected conditions that continued to affect the plant after the trip.

Mode 3 is a very safe and stable plant condition. Please let me know if you have any more questions.

Thanks.

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From: Palmer, Downey (Blunt) [mailto:Downey_Palmer@blunt.senate.gov]
Sent: Friday, December 05, 2014 11:13 AM
To: Moreno, Angel
Subject: RE: Callaway Plant- Event Notification

Hi Angel- what does currently stable at 0% power mean? Thanks.

Downey

From: Moreno, Angel [<mailto:Angel.Moreno@nrc.gov>]
Sent: Friday, December 05, 2014 10:48 AM
To: Moreno, Angel
Subject: Callaway Plant- Event Notification

Hello Everyone,

The purpose of this email is to provide you with a Callaway Nuclear Power Plant - Event Notification.

On 12/03/2014 at 0022 CST, the Callaway Plant automatically tripped from 100% power due to a turbine trip. The plant is currently stable at 0% power. Safety related buses are receiving normal off-site power and the grid is currently stable.

Below is the event report for your reference (<http://www.nrc.gov/reading-rm/doc-collections/event-status/event/2014/20141203en.html#en50650>).

If you have any questions, please feel free to reach out to me.

Thanks.

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Power Reactor	Event Number: 50650
Facility: CALLAWAY	Notification Date: 12/03/2014
Region: 4 State: MO	Notification Time: 05:05 [ET]
Unit: [1] [] []	Event Date: 12/03/2014
RX Type: [1] W-4-LP	Event Time: 00:22 [CST]
NRC Notified By: DAVID HURT	Last Update Date: 12/03/2014
HQ OPS Officer: JEFF ROTTON	
Emergency Class: NON EMERGENCY	Person (Organization):
10 CFR Section:	RAY KELLAR (R4DO)
50.72(b)(2)(iv)(B) - RPS ACTUATION - CRITICAL	
50.72(b)(3)(iv)(A) - VALID SPECIF SYS ACTUATION	

Unit	SCRAM Code	RX CRIT	Initial PWR	Initial RX Mode	Current PWR	Current RX Mode
1	A/R	Y	100	Power Operation	0	Hot Standby

Event Text

AUTOMATIC REACTOR TRIP DUE TO TURBINE TRIP

"An unexpected main turbine trip causing a reactor trip occurred on 12/03/2014 [at 0022 CST] with the plant operating in Mode 1 at 100 percent power. As part of the plant design, an expected, valid actuation of the Auxiliary Feedwater System occurred in response to the reactor trip. As part of the Auxiliary Feedwater actuation, the 'B' Motor Driven Auxiliary Feedwater Pump to 'D' Steam Generator throttle valve did not throttle as expected and was manually isolated. All other systems functioned normally in response to the plant conditions. The plant is currently stable in Mode 3 at 0 percent power. Safety related buses are receiving normal off-site power and the grid is currently stable.

"The NRC Resident Inspector was notified."

All control rods fully inserted on the reactor trip. Steam generator levels are being maintained by the AFW system and decay heat is being removed by the main condenser. No primary or secondary safety relief valves lifted during the transient.

Moreno, Angel

From: Moreno, Angel
Sent: Friday, February 06, 2015 11:47 AM
To: Moreno, Angel (Angel.Moreno@nrc.gov)
Subject: Callaway License Renewal Application (SECY Paper)
Attachments: Callaway LR.pdf This attachment is publicly available as ML14321A700.
Categories: Blue Category

Hello Everyone:

Attached, is a U.S. Nuclear Regulatory Commission (NRC) SECY Paper (15-0018) to the Commission.

This paper informs the Commission of the results of NRC's staff review of the license renewal application (LRA) submitted by the Union Electric Company (doing business as Ameren Missouri), owner and operator of the Callaway Plant, Unit 1.

Based on a review of the Callaway LRA submitted by Ameren Missouri, the staff finds that there is sufficient basis to support the option of license renewal from an environmental perspective. The staff also finds that there is reasonable assurance that the activities authorized by the renewed license will continue to be conducted safely in accordance with the current licensing basis for Callaway.

This paper requests that the Commission authorize the Director of the Office of Nuclear Reactor Regulation to renew the operating license for Callaway for an additional 20 years.

Please know that a final license renewal decision has not been made.

If you have any questions, please feel free to reach out to me.

Thanks.

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