



Callaway Plant

March 19, 2018

ULNRC-06419

U.S. Nuclear Regulatory Commission  
Attn: Document Control Desk  
Washington, DC 20555-0001

10 CFR 50.55a

Ladies and Gentlemen:

**DOCKET NUMBER 50-483  
CALLAWAY PLANT UNIT 1  
UNION ELECTRIC CO.  
RENEWED FACILITY OPERATING LICENSE NPF-30  
OWNER'S ACTIVITY REPORTS (OAR-1 FORMS) FOR CYCLE/REFUEL 22**

Please find enclosed the Owner's Activity Reports (OAR-1 forms) for Cycle 22 and Refuel 22 activities at Callaway Plant. The reports are submitted pursuant to the provisions of the applicable revisions of ASME Boiler and Pressure Vessel Code Case N-532, "Alternative Requirements to Repair and Replacement Documentation Requirements and Inservice Summary Report Preparation and Submission."

The OAR-1 forms enclosed are associated with the following Cycle 22 and Refuel 22 activities at Callaway Plant:

1. Inservice Inspection (ISI) and Repair/Replacement activities for the first period of the fourth ISI Program interval, and
2. Containment Inservice Inspection pursuant to ASME Section XI, subsection IWE for the third period of the second IWE Program interval.

Each enclosed OAR-1 form includes a listing of items with identified flaws or relevant conditions that required evaluation for continued service (Table 1) and an abstract of repair/replacement activities required for continued service (Table 2).

In accordance with Revision 0 of the Fourth Interval ISI Program Plan, the OAR-1 form for the ISI and Repair/Replacement activities is submitted in accordance with Code Case N-532-5. Similarly, in accordance with Revision 3 of the IWE Program Plan, the OAR-1 form for the Containment Inservice Inspection activities is submitted in accordance with Code Case N-532-4.

ULNRC-06419  
March 19, 2018  
Page 2 of 4

This letter does not contain new commitments. If there are any questions, please contact Jim Kovar at (314) 225-1478.

Sincerely,

A handwritten signature in black ink, appearing to read "Mark McFall".

*FOR*  
Roger C. Wink  
Manager, Regulatory Affairs

JPK/

Enclosure: OAR-1 forms (2)

cc: Mr. Kriss M. Kennedy  
Regional Administrator  
U. S. Nuclear Regulatory Commission  
Region IV  
1600 East Lamar Boulevard  
Arlington, TX 76011-4511

Senior Resident Inspector  
Callaway Resident Office  
U.S. Nuclear Regulatory Commission  
8201 NRC Road  
Steelman, MO 65077

Mr. L. John Klos  
Project Manager, Callaway Plant  
Office of Nuclear Reactor Regulation  
U. S. Nuclear Regulatory Commission  
Mail Stop O8H4  
Washington, DC 20555-0001

**Index and send hardcopy to QA File A160.0761**

**Hardcopy:**

Certrec Corporation  
6100 Western Place, Suite 1050  
Fort Worth, TX 76107

(Certrec receives ALL attachments as long as they are non-safeguards and may be publicly disclosed.)

**Electronic distribution for the following can be made via Other Situations ULNRC Distribution:**

F. M. Diya  
T. E. Herrmann  
S. P. Banker  
B. L. Cox  
R. C. Wink  
T. B. Elwood  
A. A. Alley  
Corporate Communications  
NSRB Secretary  
STARS Regulatory Affairs  
Mr. Jay Silberg (Pillsbury Winthrop Shaw Pittman LLP)  
Missouri Public Service Commission

# CALLAWAY NUCLEAR PLANT FORM OAR-1 OWNER'S ACTIVITY REPORT

Report Number 22

Plant Callaway Energy Center, P.O. Box 620, Fulton, MO 65251

Unit No. 1 (if applicable) Commercial service date 12/19/1984 Refueling outage no. 22

Current inspection interval 4<sup>th</sup>  
(1st, 2nd, 3rd, 4th, other)

Current inspection period 1st  
(1st, 2nd, 3rd)

Edition and Addenda of Section XI applicable to the inspection plans 2007 Edition with 2008 Addenda

Date and revision of inspection plans 1/19/2016, Rev. 0

Edition and Addenda of Section XI applicable to repair/replacement activities, if different than the inspection plans Same as inspection plan

Code Cases used N-532-5, N-661-2  
(if applicable)

## CERTIFICATE OF CONFORMANCE

I certify that (a) the statements made in this report are correct; (b) the examinations and tests meet the Inspection Plan as required by the ASME Code, Section XI; and (c) the repair/replacement activities and evaluations supporting the completion of 22 conform to the requirements of Section XI. (refueling outage number)

Signed

Chris Kelley  
Owner or Owner's Designee, Title

Supervising Engineer Date 3/15/18

## CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and employed by the Hartford Steam Boiler Inspection and Insurance Company of Hartford, CT have inspected the items described in this Owner's Activity Report, and state that, to the best of my knowledge and belief, the Owner has performed all activities represented by this report in accordance with the requirements of Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair/replacement activities and evaluation described in this report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Brian Smith  
Inspector's Signature

Commissions

14733 BNI M00503

National Board, State, Province, and Endorsements

Date

3-15-2018

**CALLAWAY NUCLEAR PLANT**

**TABLE 1**  
**ITEMS WITH FLAWS OR RELEVANT CONDITIONS THAT REQUIRED**  
**EVALUATION FOR CONTINUED SERVICE**

Examination Category and Item Number	Item Description	Evaluation Description
NONE		

TABLE 2  
ABSTRACT OF REPAIR/REPLACEMENT ACTIVITIES REQUIRED FOR CONTINUED SERVICE

Code Class	Item Description	Description of Work	Date Completed	Repair/Replacement Plan Number
2	Helical-coil insert	<p>Install helical coil insert on atmospheric steam dump valve body-bonnet stud hole.</p> <p>The traceability of the helical coil insert was not able to be verified. CR 201801374 documents the non-conforming condition. The non-conforming condition will be resolved by either validating the material traceability or by replacing with helical coil insert during the next refueling outage.</p>	10/21/2017	16001113-510

# CALLAWAY NUCLEAR PLANT FORM OAR-1 OWNER'S ACTIVITY REPORT

Report Number 22

Plant Callaway Energy Center, P. O. Box 620, Fulton, MO 65251

Unit No. 1 Commercial service date 12/19/1984 Refueling outage no. 22  
(if applicable)

Current inspection interval 2<sup>nd</sup> (IWE Program) (IWE Program)  
(1st, 2nd, 3rd, 4th, other)

Current inspection period 3<sup>rd</sup> (IWE Program)  
(1st, 2nd, 3rd)

Edition and Addenda of Section XI applicable to the inspection plans 2001 Edition with 2003 Addenda (IWE Program)

Date and revision of inspection plans IWE Program: 12/08/2009, Rev. 3

Edition and Addenda of Section XI applicable to repair/replacement activities, if different than the inspection plans Same as  
Inspection plan

Code Cases used N-532-4,  
(if applicable)

## CERTIFICATE OF CONFORMANCE

I certify that (a) the statements made in this report are correct; (b) the examinations and tests meet the Inspection Plan as required by the ASME Code, Section XI; and (c) the repair/replacement activities and evaluations supporting the completion of 22  
(refueling outage number) conform to the requirements of Section XI.

Signed - Dan Bax 78223 Date 2018.02.07  
Owner or Owner's Designee, Title  
IWE Engineer

## CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and employed by The Hartford Steam Boiler Inspection and Insurance Company of Hartford, CT have inspected the items described in this Owner's Activity Report, and state that, to the best of my knowledge and belief, the Owner has performed all activities represented by this report in accordance with the requirements of Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair/replacement activities and evaluation described in this report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

B. J. Smith 117391 Commission 14733 BVI, MO 0503  
Inspector's Signature National Board, State, Province, and Endorsements

Date 3-12-18



# CALLAWAY NUCLEAR PLANT

TABLE 1  
ITEMS WITH FLAWS OR RELEVANT CONDITIONS THAT REQUIRED  
EVALUATION FOR CONTINUED SERVICE

Examination Category and Item Number	Item Description	Evaluation Description
None		

TABLE 2  
ABSTRACT OF REPAIR/REPLACEMENT ACTIVITIES REQUIRED FOR CONTINUED SERVICE

Code Class	Item Description	Description of Work	Date Completed	Repair/Replacement Plan Number
None				