



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION**

REGION IV  
1600 E. LAMAR BLVD.  
ARLINGTON, TX 76011-4511

March 4, 2014

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

SUBJECT: ANNUAL ASSESSMENT LETTER FOR CALLAWAY PLANT  
(REPORT 05000483/2013001)

Dear Mr. Diya:

On February 11, 2014, the NRC completed its end-of-cycle performance review of Callaway Plant. The NRC reviewed the most recent quarterly performance indicators (PIs) in addition to inspection results and enforcement actions from January 1, 2013, through December 31, 2013. This letter informs you of the NRC's assessment of your facility during this period and its plans for future inspections at your facility.

The NRC determined that overall, Callaway Plant operated in a manner that preserved public health and safety and met all cornerstone objectives. The NRC determined the performance at Callaway Plant during the most recent quarter was within the Licensee Response Column of the NRC's Reactor Oversight Process (ROP) Action Matrix because all inspection findings had very low (i.e., Green) safety significance, and all PIs indicated that your performance was within the nominal, expected range (i.e., Green). Therefore, the NRC plans to conduct ROP baseline inspections at your facility.

The enclosed inspection plan lists the inspections scheduled through June 30, 2015. Routine inspections performed by resident inspectors are not included in the inspection plan. The inspections listed during the last nine months of the inspection plan are tentative and may be revised at the mid-cycle performance review. The NRC provides the inspection plan to allow for the resolution of any scheduling conflicts and personnel availability issues. The NRC will contact you as soon as possible to discuss changes to the inspection plan should circumstances warrant any changes. This inspection plan does not include security related inspections, which will be sent via separate, non-publicly available correspondence.

As a result of the Safety Culture Common Language Initiative, the terminology and coding of cross-cutting aspects were revised effective January 1, 2014. New cross-cutting aspects will be coded in accordance with the latest revision to NRC Inspection Manual Chapter (IMC) 0310, dated December 19, 2013. Cross-cutting aspects identified in the last six months of 2013 using the previous terminology will be converted to the revised language in accordance with the cross-reference in IMC 0310. The revised cross-cutting aspects will be evaluated for cross-cutting themes and potential substantive cross-cutting issues in accordance with IMC 0305 starting with the calendar year 2014 mid-cycle assessment.

F. Diya

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In accordance with 10 CFR 2.390 of the NRC's Rules of Practice, a copy of this letter will be available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records (PARS) component of NRC's document system (ADAMS). ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

Please contact me at 817-200-1141 with any questions you have regarding this letter.

Sincerely,

/RA/

Neil O'Keefe, Chief  
Project Branch B  
Division of Reactor Projects

Docket No. 50-483

License No. NPF-30

Enclosure: Callaway Plant Inspection / Activity Plan

Distribution:

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Callaway  
 Inspection / Activity Plan  
 03/01/2014 - 06/30/2015

| Unit Number | Planned Dates Start | Planned Dates End | Inspection Activity                                   | Title   | No. of Staff on Site |
|-------------|---------------------|-------------------|---|---|----------------------|
|             |                     |                   | <b>EXAM - INITIAL OPERATOR EXAM</b>                   |   | 4                    |
|             | 11/03/2014          | 11/07/2014        | X02535  | INITIAL EXAM-CALLAWAY (02/01/2015)  |                      |
|             | 12/08/2014          | 12/12/2014        | X02535  | INITIAL EXAM-CALLAWAY (02/01/2015)  |                      |
|             |                     |                   | <b>EB1-21T - COMPONENT DESIGN BASIS INSPECTION</b>    |   | 7                    |
|             | 04/14/2014          | 04/18/2014        | IP 7111121  | Component Design Bases Inspection   |                      |
|             | 04/28/2014          | 05/02/2014        | IP 7111121  | Component Design Bases Inspection   |                      |
|             | 05/12/2014          | 05/16/2014        | IP 7111121  | Component Design Bases Inspection   |                      |
|             |                     |                   | <b>EP-2 - EP PROGRAM INSPECTION</b>                   |   | 1                    |
|             | 04/12/2014          | 04/25/2014        | IP 7111402  | Alert and Notification System Testing   |                      |
|             | 04/21/2014          | 04/25/2014        | IP 7111403  | Emergency Preparedness Organization Staffing and Augmentation System            |                      |
|             | 04/21/2014          | 04/25/2014        | IP 7111404  | Emergency Action Level and Emergency Plan Changes                               |                      |
|             | 04/12/2014          | 04/25/2014        | IP 7111405  | Correction of Emergency Preparedness Weaknesses and Deficiencies                |                      |
|             |                     |                   | <b>EP-1 - EP PERFORMANCE INDICATORS</b>               |   |                      |
|             | 04/12/2014          | 04/25/2014        | IP 71151-EP01   | Drill Exercise Performance  |                      |
|             | 04/21/2014          | 04/25/2014        | IP 71151-EP02   | ERO Drill Participation   |                      |
|             | 04/21/2014          | 04/25/2014        | IP 71151-EP03   | Alert & Notification System   |                      |
|             |                     |                   | <b>ISFSI - PAD POUR INSPECTION (MULTIPLE VISITS)</b>  |   |                      |
|             | 05/01/2014          | 06/30/2014        | IP 60855.1  | Operation of an Independent Spent Fuel Storage Installation at Operating Plants |                      |
|             |                     |                   | <b>TSB 52B - BIENNIAL PI&amp;R</b>                    |   | 4                    |
|             | 08/11/2014          | 08/15/2014        | IP 711528   | Problem Identification and Resolution   |                      |
|             | 08/25/2014          | 08/29/2014        | IP 711528   | Problem Identification and Resolution   |                      |
|             |                     |                   | <b>RS 24 - RADIATION SAFETY</b>                       |   | 2                    |
|             | 08/25/2014          | 08/29/2014        | IP 71124.02   | Occupational ALARA Planning and Controls  |                      |
|             | 08/25/2014          | 08/29/2014        | IP 71124.04   | Occupational Dose Assessment  |                      |
|             |                     |                   | <b>71111.08 - CALLAWAY INSERVICE INSPECTION</b>       |   |                      |
|             | 10/13/2014          | 10/24/2014        | IP 7111108P   | Inservice Inspection Activities- PWR  |                      |
|             |                     |                   | <b>RS 13 PI - RADIATION SAFETY</b>                    |   | 2                    |
|             | 10/27/2014          | 10/31/2014        | IP 71124.01   | Radiological Hazard Assessment and Exposure Controls                            |                      |
|             | 10/27/2014          | 10/31/2014        | IP 71124.03   | In-Plant Airborne Radioactivity Control and Mitigation                          |                      |
|             | 10/27/2014          | 10/31/2014        | IP 71151-OR01   | Occupational Exposure Control Effectiveness                                     |                      |
|             | 10/27/2014          | 10/31/2014        | IP 71151-PR01   | RETS/ODCM Radiological Effluent   |                      |
|             |                     |                   | <b>EB2-05T - TRIENNIAL FIRE PROTECTION INSPECTION</b> |   | 4                    |
|             | 04/27/2015          | 05/01/2015        | IP 7111105x   | Fire Protection- NFPA 805 (Triennial)   |                      |

This report does not include INPO and- OUTAGE activities.  
 This report shows only on-site and announced inspection procedures.

Callaway  
 Inspection / Activity Plan  
 03/01/2014 - 06/30/2015

| Unit Number | Planned Dates Start | Planned Dates End | Section       | Activity  | Title | No. of Staff on Site |
|-------------|---------------------|-------------------|---------------|---|-------|----------------------|
|             |                     |                   | EB2-05T       | - TRIENNIAL FIRE PROTECTION INSPECTION            |       | 4                    |
| 05/11/2015  | 05/15/2015          |                   | IP 7111105x   | Fire Protection- NFPA 805 (Triennial)             |       |                      |
|             |                     |                   | EP-2          | - HAB EXERCISE INSPECTION                         |       | 2                    |
| 05/04/2015  | 05/08/2015          |                   | IP 7111404    | Emergency Action Level and Emergency Plan Changes |       |                      |
| 05/04/2015  | 05/08/2015          |                   | IP 7111407    | Exercise Evaluation - Hostile Action (HA) Event   |       |                      |
|             |                     |                   | EP-3          | - EP PERFORMANCE INDICATORS                       |       | 2                    |
| 05/04/2015  | 05/08/2015          |                   | IP 71151-EP01 | Drill/Exercise Performance                        |       |                      |
| 05/04/2015  | 05/08/2015          |                   | IP 71151-EP02 | ERO Drill Participation                           |       |                      |
| 05/04/2015  | 05/08/2015          |                   | IP 71151-EP03 | Alert & Notification System                       |       |                      |
|             |                     |                   | INSP          | - OPERATOR REQUAL INSPECTION                      |       | 3                    |
| 06/15/2015  | 06/19/2015          |                   | IP 71111118   | Licensed Operator Requalification Program         |       |                      |