



UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION IV
612 EAST LAMAR BLVD, SUITE 400
ARLINGTON, TEXAS 76011-4125

March 4, 2011

Mr. Adam C. Heflin, 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 05000483/2011001)

Dear Mr. Heflin:

On February 3, 2011, 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, 2010 through December 31, 2010. This letter informs you of the NRC's assessment of your facility during this period and its plans for future inspections at your facility. This performance review and enclosed inspection plan do not include security information. A separate letter will include the NRC's assessment of your performance in the Security Cornerstone and its security-related inspection plan.

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.

During the first and second quarters of 2010, performance at Callaway Plant was within the Regulatory Response Column of the Action Matrix because of a White PI for Mitigating Systems Performance Index – Emergency AC Power. As required by the NRC Reactor Oversight Process Action Matrix, a supplemental inspection was performed using the guidance of Inspection Procedure 95001, "Supplemental Inspection for One or Two White Inputs in a Strategic Performance Area." During that inspection, the inspectors determined that your evaluation and corrective actions for the White performance indicator were adequate. Also, the NRC noted that the Mitigating Systems Performance Index – Emergency AC Power Performance Indicator returned to Green at the beginning of the third quarter of 2010. On November 9, 2010, the NRC issued a followup assessment letter documenting a quarterly review of plant performance of Callaway Plant in which the NRC assessed Callaway Plant performance to have returned within the Licensee Response Column of the Action Matrix.

The enclosed inspection plan lists the inspections scheduled through June 30, 2012. 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. Of note, the NRC plans to conduct Temporary Instruction 2515/177 Inspection, "Managing Gas Accumulation in Emergency Core Cooling, Decay Heat Removal, and Containment Spray Systems," which remains to be scheduled, but will be completed during the 2011 calendar year.

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 Geoffrey Miller at 817-860-8141 with any questions you have regarding this letter.

Sincerely,


Kriss M. Kennedy, Director
Division of Reactor Projects

Docket No. 50-483
License No. NPF-30

Enclosure: Callaway Plant Inspection/Activity Plan

cc: Distribution via ListServ

The Honorable Steve Wehrle
Mayor of Rhineladn
P. O. Box 384
Rhineland, MO 65069

Callaway
 Inspection / Activity Plan
 03/01/2011 - 06/30/2012

| Unit Number | Planned Dates Start | Planned Dates End | Inspection Activity | Title | No. of Staff on Site |
|-------------|---------------------|-------------------|---------------------|---|----------------------|
| 1 | 02/14/2011 | 03/18/2011 | EB1-21 | - COMPONENT DESIGN BASIS INSPECTION | 4 |
| | | | IP 7111121 | Component Design Bases Inspection | |
| 1 | 03/21/2011 | 03/25/2011 | SPECIAL | - SPECIAL INSPECTION - TDAFW BEARING | 3 |
| | | | IP 93812 | Special Inspection | |
| 1 | 06/20/2011 | 06/24/2011 | BRQ INSP | - BRQ INSPECTION | 2 |
| | | | IP 7111111B | Licensed Operator Requalification Program | |
| 1 | 05/09/2011 | 05/13/2011 | EP1 | - BIENNIAL EP EXERCISE INSPECTION | 3 |
| | | | IP 7111401 | Exercise Evaluation | |
| 1 | 05/09/2011 | 05/13/2011 | IP 7111404 | Emergency Action Level and Emergency Plan Changes | |
| 1 | 05/09/2011 | 05/13/2011 | IP 711151 | Performance Indicator Verification | |
| 1 | 05/23/2011 | 05/27/2011 | RP678 | - RADIATION SAFETY TEAM | 3 |
| | | | IP 71124.06 | Radioactive Gaseous and Liquid Effluent Treatment | |
| 1 | 05/23/2011 | 05/27/2011 | IP 71124.07 | Radiological Environmental Monitoring Program | |
| 1 | 05/23/2011 | 05/27/2011 | IP 71124.08 | Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation | |
| 1 | 10/10/2011 | 10/21/2011 | PSB2-08P | - INSERVICE INSPECTION | 2 |
| | | | IP 7111108P | Inservice Inspection Activities - PWR | |
| 1 | 10/17/2011 | 10/21/2011 | RS12 | - RADIATION SAFETY | 2 |
| | | | IP 71124.01 | Radiological Hazard Assessment and Exposure Controls | |
| 1 | 10/17/2011 | 10/21/2011 | IP 71124.02 | Occupational ALARA Planning and Controls | |
| 1 | 10/17/2011 | 10/21/2011 | IP 71151-OR01 | Occupational Exposure Control Effectiveness | |
| 1 | 10/17/2011 | 10/21/2011 | IP 71151-PR01 | RETS/ODCM Radiological Effluent | |
| 1 | 04/16/2012 | 04/20/2012 | EB2-05T | - TRIENNIAL FIRE PROTECTION INSPECTION | 4 |
| | | | IP 7111105P | Fire Protection-NFPA 805 Transition Period [Triennial] | |
| 1 | 04/30/2012 | 05/04/2012 | IP 7111105P | Fire Protection-NFPA 805 Transition Period [Triennial] | |
| 1 | 04/23/2012 | 04/27/2012 | RS12 | - RADIATION SAFETY | 2 |
| | | | IP 71124.03 | In-Plant Airborne Radioactivity Control and Mitigation | |
| 1 | 04/23/2012 | 04/27/2012 | IP 71124.04 | Occupational Dose Assessment | |

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