



UNITED STATES  
**NUCLEAR REGULATORY COMMISSION**  
REGION IV  
1600 EAST LAMAR BLVD  
ARLINGTON, TEXAS 76011-4511

March 5, 2012

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 05000483/2012001)

Dear Mr. Heflin:

On February 14, 2012, 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, 2011, through December 31, 2011. 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.

The enclosed inspection plan lists the inspections scheduled through June 30, 2013. 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.

From July 1, 2010 – June 30, 2011, the NRC identified four traditional enforcement violations. All four involved the traditional enforcement area related to violations that may impact the ability of the NRC to perform its regulatory oversight functions. In our assessment letter dated September 1, 2011 (ML112440177), we stated our intention to conduct Inspection Procedure

92723, "Follow-Up Inspection for Three or More Severity Level IV Traditional Enforcement Violation in the Same 12-Month Period." This inspection is scheduled for the week of April 23, 2012.

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 F. O'Keefe  
Chief, Reactor Projects Branch B  
Division of Reactor Projects

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

Enclosure: Callaway Inspection/Activity Plan

cc: w/enclosure via Electronic Distribution

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ADAMS		<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> SUNSI Review Complete	Reviewer Initials: NFO	
<b>Category B.1</b>		<input checked="" type="checkbox"/> Publicly Available		<input checked="" type="checkbox"/> Non-sensitive		
<b>Category A</b>		<input type="checkbox"/> Non-publicly Available		<input type="checkbox"/> Sensitive		
C:DRP	D:DRS	D:DRP	C:DRP/PBB			
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2/27/12	2/27/12	2/28/12	2/28/12			

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**Callaway**  
**Inspection / Activity Plan**  
**04/01/2012 - 06/30/2013**

Unit Number	Planned Dates Start	Planned Dates End	Inspection Activity	Title	No. of Staff on Site
1	03/01/2012	12/31/2012	<b>2515/182 - UNDERGROUND PIPING PHASE 1</b>	Review of the Implementation of the Industry Initiative to Control Degradation of Underground Piping	2
1	04/16/2012	04/20/2012	<b>EB2-05T - TRIENNIAL FIRE PROTECTION INSPECTION</b>	Fire Protection-NFPA 805 Transition Period [Triennial]	4
1	04/30/2012	05/04/2012	<b>92723-1 - 92723 FOLLOWUP INSPECTION</b>	Fire Protection-NFPA 805 Transition Period [Triennial]	1
1	04/23/2012	04/27/2012	<b>SEC</b>	Follow Up Inspection for Three or More Severity Level IV Traditional Enforcement Violations in the S	1
1	04/23/2012	04/27/2012	<b>TSB-52B - BIENNIAL PI&amp;R INSPECTION</b>	Supplemental Inspection for One or Two White Inputs in a Strategic Performance Area	4
1	06/25/2012	06/29/2012	<b>EP-1 - BIENNIAL EP PROGRAM INSPECTION</b>	Problem Identification and Resolution	1
1	07/09/2012	07/15/2012	<b>RS1234 - RADIATION SAFETY</b>	Problem Identification and Resolution	4
1	09/10/2012	09/14/2012	<b>EB2-02 - LICENSE RENEWAL</b>	Alert and Notification System Testing	5
1	09/10/2012	09/14/2012	<b>2515/182 - UNDERGROUND PIPING PHASE 1</b>	Emergency Preparedness Organization Staffing and Augmentation System	2
1	09/10/2012	09/14/2012		Emergency Action Level and Emergency Plan Changes	
1	09/10/2012	09/14/2012		Correction of Emergency Preparedness Weaknesses and Deficiencies	
1	09/10/2012	09/14/2012		Drill/Exercise Performance	
1	09/10/2012	09/14/2012		ERO Drill Participation	
1	09/10/2012	09/14/2012		Alert & Notification System	
1	08/27/2012	08/31/2012		Follow-up on the Industry's Ground Water Protection Initiative	
1	08/27/2012	08/31/2012		Radiological Hazard Assessment and Exposure Controls	
1	08/27/2012	08/31/2012		Occupational ALARA Planning and Controls	
1	08/27/2012	08/31/2012		In-Plant Airborne Radioactivity Control and Mitigation	
1	08/27/2012	08/31/2012		Occupational Dose Assessment	
1	08/27/2012	08/31/2012		Occupational Exposure Control Effectiveness	
1	08/27/2012	08/31/2012		RETS/ODCM Radiological Effluent	
1	09/10/2012	09/14/2012		License Renewal Inspection	
1	09/24/2012	09/28/2012		License Renewal Inspection	
1	01/01/2013	06/30/2013		Review of the Implementation of the Industry Initiative to Control Degradation of Underground Piping	2