



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**

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

September 2, 2014

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

SUBJECT: MID-CYCLE ASSESSMENT LETTER FOR CALLAWAY PLANT
(REPORT 0500483/2014006)

Dear Mr. Diya:

On August 12, 2014, the NRC completed its mid-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 July 1, 2013, through June 30, 2014. This letter informs you of the NRC's assessment of Callaway Plant during this period and its plans for future inspections at your facility.

The NRC determined that overall, Callaway Plant was 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.

As a result of the Safety Culture Common Language Initiative, the terminology and coding of cross-cutting aspects were revised. All cross-cutting aspects identified during inspections conducted in calendar year 2014 reflect this revision to Inspection Manual Chapter (IMC) 0310. Cross-cutting aspects identified in 2013 using the 2013 terminology were converted to the latest revision in accordance with the cross-reference in IMC 0310 during the mid-cycle assessment review and evaluated for cross-cutting themes and potential substantive cross-cutting issues in accordance with IMC 0305.

The enclosed inspection plan lists the inspections scheduled through December 31, 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 end-of-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.

In response to the accident at Fukushima, the Commission issued Order EA-12-049, "Order Modifying Licenses with Regard to Requirements for Mitigation Strategies for Beyond-Design-Basis External Events," which requires licensees to develop, implement, and maintain guidance and strategies to maintain or restore core cooling, containment, and spent fuel pool cooling capabilities following a beyond-design-basis external event. Additionally, the Commission issued Order EA-12-051, "Order Modifying Licenses with Regard to Reliable Spent Fuel Pool Instrumentation," which requires licensees to have a reliable means of remotely monitoring wide-range Spent Fuel Pool levels to support effective prioritization of event mitigation and recovery actions in the event of a beyond-design-basis external event. The NRC is conducting audits of licensee efforts towards compliance with these Orders. This audit includes an onsite component in order for the NRC to evaluate licensee plans for complying with the Orders, as described in site-specific submittals, and to receive and review information relative to associated open items. This onsite activity will occur in the months prior to a declaration of compliance for the first unit at each site, and will aid staff in development of an ultimate Safety Evaluation for the site. The date for the onsite component at your site is being coordinated with your staff. A site-specific audit plan for the visit will be provided in advance to allow sufficient time for preparations.

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
Project Branch B
Division of Reactor Projects

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

Enclosure: Callaway Plant Inspection/
Activity Plan

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DISTRIBUTION: See next page

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Letter to Fadi Diya from Neil F. O'Keefe dated September 2, 2014

SUBJECT: MID-CYCLE ASSESSMENT LETTER FOR CALLAWAY PLANT
(REPORT 05000483/2014006)

DISTRIBUTION:

Regional Administrator (Marc.Dapas@nrc.gov)
Deputy Regional Administrator (Steven.Reynolds@nrc.gov)
Acting DRP Director (Troy.Pruett@nrc.gov)
Acting DRP Deputy Director (Michael.Hay@nrc.gov)
DRS Director (Anton.Vegel@nrc.gov)
DRS Deputy Director (Jeff.Clark@nrc.gov)
Senior Resident Inspector (Tom.Hartman@nrc.gov)
Resident Inspector (Zachary.Hollcraft@nrc.gov)
Administrative Assistant (Dawn.Yancey@nrc.gov)
Branch Chief (Neil.O'Keefe@nrc.gov)
Senior Project Engineer (David.Proulx@nrc.gov)
Project Engineer, (Fabian.Thomas@nrc.gov)
Public Affairs Officer (Victor.Dricks@nrc.gov)
Public Affairs Officer (Lara.Uselding@nrc.gov)
RIV State Liaison Officer (Bill.Maier@nrc.gov)
Project Manager (Fred.Lyon@nrc.gov)
Branch Chief, DRS/TSB (Geoffrey.Miller@nrc.gov)
R4DRPBC@nrc.gov
R4DRSBC@nrc.gov
Director, DIRS, NRR (Scott.Morris@nrc.gov)
Deputy Director, DIRS, NRR (Allen.Howe@nrc.gov)
Acting Director, DORL, NRR (Louise.Lund@nrc.gov)
Acting Deputy Director, DORL (Michael.Markley@nrc.gov)
Director, NSIR/DPR (Rob.Lewis@nrc.gov)
Chief, PLB IV, DORL, NRR (Eric.Oesterle@nrc.gov)
Regional Counsel (Karla.Fuller@nrc.gov)
RITS Coordinator (Marisa.Herrera@nrc.gov)
Technical Support Assistant (Loretta.Williams@nrc.gov)
Congressional Affairs Officer (Jenny.Weil@nrc.gov)
RIV/ETA: OEDO (Anthony.Bowers@nrc.gov)
ROPassessment Resource@nrc.gov
ROPreports@nrc.gov
OEMail Resource@nrc.gov

Electronic Distribution for Callaway Plant

Callaway
Inspection / Activity Plan
09/01/2014 - 12/31/2015

Unit Number	Planned Dates Start End	Inspection Activity	Title	No. of Staff on Site
		EXAM - INITIAL OPERATOR EXAM		4
1	11/03/2014 11/07/2014	X02535	INITIAL EXAM-CALLAWAY (02/01/2015)	
1	12/08/2014 12/12/2014	X02535	INITIAL EXAM-CALLAWAY (02/01/2015)	
		ISFSI - PAD POUR INSPECTION (MULTIPLE VISITS)		1
1	08/01/2014 11/30/2014	IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants	
		HEAD-REP - REACTOR HEAD REPLACEMENT P1		2
1	08/17/2014 09/27/2014	IP 71007	Reactor Vessel Head Replacement Inspection	
		71111.08 - CALLAWAY INSERVICE INSPECTION		2
1	10/13/2014 10/24/2014	IP 7111108P	Inservice Inspection Activities - PWR	
		HEAD-REP - REACTOR HEAD REPLACEMENT-P2		2
1	10/19/2014 11/22/2014	IP 71007	Reactor Vessel Head Replacement Inspection	
1	10/19/2014 12/27/2014	IP 71152	Problem Identification and Resolution	
		RS 13 PI - RADIATION SAFETY		2
1	10/27/2014 10/31/2014	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	10/27/2014 10/31/2014	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1	10/27/2014 10/31/2014	IP 71151-OR01		
1	10/27/2014 10/31/2014	IP 71151-PR01		
		ISFSI - DRY RUN INSPECTIONS (MULTIPLE VISITS)		1
1	02/01/2015 05/01/2015	IP 60855	Operation Of An ISFSI	
		ISFSI - DRY RUN INSPECTION (MULTIPLE VISITS)		1
1	02/01/2015 06/01/2015	IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants	
		EB2-05T - TRIENNIAL FIRE PROTECTION INSPECTION		4
1	04/27/2015 05/01/2015	IP 7111105x	Fire Protection - NFPA 805 (Triennial)	
1	05/11/2015 05/15/2015	IP 7111105x	Fire Protection - NFPA 805 (Triennial)	
		EP-2 - HAB EXERCISE INSPECTION		2
1	05/04/2015 05/08/2015	IP 7111404	Emergency Action Level and Emergency Plan Changes	
1	05/04/2015 05/08/2015	IP 7111407	Exercise Evaluation - Hostile Action (HA) Event	
		EP-3 - EP PERFORMANCE INDICATORS		2
1	05/04/2015 05/08/2015	IP 71151-EP01		
1	05/04/2015 05/08/2015	IP 71151-EP02		
1	05/04/2015 05/08/2015	IP 71151-EP03		
		INSP - OPERATOR REQUAL INSPECTION		3
1	06/15/2015 06/19/2015	IP 7111111B	Licensed Operator Requalification Program	

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

Callaway
Inspection / Activity Plan
09/01/2014 - 12/31/2015

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
RS 5678 - RADIATION SAFETY - TEAM					4
1	07/13/2015	07/17/2015	IP 71124.05	Radiation Monitoring Instrumentation	
1	07/13/2015	07/17/2015	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
1	07/13/2015	07/17/2015	IP 71124.07	Radiological Environmental Monitoring Program	
1	07/13/2015	07/17/2015	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
RS 12 PI - RADIATION SAFETY					2
1	10/26/2015	10/30/2015	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	10/26/2015	10/30/2015	IP 71124.02	Occupational ALARA Planning and Controls	
1	10/26/2015	10/30/2015	IP 71151-OR01		
1	10/26/2015	10/30/2015	IP 71151-PR01		