



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**

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

September 1, 2015

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 0500483/2015005)

Dear Mr. Diya:

On August 11, 2015, the Nuclear Regulatory Commission (NRC) completed its mid-cycle performance review of the Callaway Plant. The NRC reviewed the most recent quarterly performance indicators (PIs) in addition to inspection results and enforcement actions from July 1, 2014 through June 30, 2015. 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, 2017. Routine inspections performed by resident inspectors are not included in the inspection plan. The inspections listed during the second half 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 Title 10 of the *Code of Federal Regulations* (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/

Nicholas H. Taylor, Branch 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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Nicholas H. Taylor, Branch Chief
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Enclosure: Callaway Plant Inspection/
 Activity Plan

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See next page

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DATE	8/26/15	8/26/15	8/27/15	

OFFICIAL RECORD COPY

Letter to Fadi Diya from Nicholas H. Taylor dated September 1, 2015

SUBJECT: ANNUAL ASSESSMENT LETTER FOR CALLAWAY PLANT
(REPORT 05000483/2015005)

DISTRIBUTION:

Regional Administrator (Marc.Dapas@nrc.gov)
Deputy Regional Administrator (Kriss.Kennedy@nrc.gov)
DRP Director (Troy.Pruett@nrc.gov)
DRP Deputy Director (Ryan.Lantz@nrc.gov)
DRS Director (Anton.Vegel@nrc.gov)
DRS Deputy Director (Jeff.Clark@nrc.gov)
Senior Resident Inspector (Thomas.Hartman@nrc.gov)
Resident Inspector (Michael.Langelier@nrc.gov)
Branch Chief, DRP/B (Nicholas.Taylor@nrc.gov)
Senior Project Engineer, DRP/B (David.Proulx@nrc.gov)
Project Engineer, DRP/B (Steven.Janicki@nrc.gov)
Project Engineer, DRP/B (Shawn.Money@nrc.gov)
CWY Administrative Assistant (Dawn.Yancey@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 (John.Klos@nrc.gov)
Acting Team Leader, DRS/TSS (Eric.Ruesch@nrc.gov)
Director, DIRS, NRR (Scott.Morris@nrc.gov)
Deputy Director, DIRS, NRR (Allen.Howe@nrc.gov)
Acting Director, DORL, NRR (Anne.Boland@nrc.gov)
Acting Deputy Director, DORL (George.Wilson@nrc.gov)
Director, NSIR/DPR (Rob.Lewis@nrc.gov)
Chief, PLB IV, DORL, NRR (Michael.Markey@nrc.gov)
RITS Coordinator (Marisa.Herrera@nrc.gov)
Regional Counsel (Karla.Fuller@nrc.gov)
Technical Support Assistant (Loretta.Williams@nrc.gov)
Congressional Affairs Officer (Jenny.Weil@nrc.gov)
RIV Congressional Affairs Officer (Angel.Moreno@nrc.gov)
RIV/ETA: OEDO (Cindy.Rosales-Cooper@nrc.gov)
ROPassessment Resource@nrc.gov
ROPreports@nrc.gov
OEMail Resource@nrc.gov

Electronic Distribution for Callaway Plant

Callaway
Inspection / Activity Plan
07/01/2015 - 06/30/2017

Unit Number	Planned Dates Start	Planned Dates End	Inspection Activity	Title	No. of Staff on Site
			INSP	- OPERATOR REQUAL INSPECTION	3
1	06/15/2015	09/30/2015	IP 7111111B	Licensed Operator Requalification Program	
			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	Occupational Exposure Control Effectiveness	
1	10/26/2015	10/30/2015	IP 71151-PR01	RETS/ODCM Radiological Effluent Occurrences	
			EXAMS	- INITIAL OPERATOR EXAM	4
1	04/18/2016	04/22/2016	X02571	INITIAL EXAM CALLOWAY (05/2016)	
1	05/23/2016	05/27/2016	X02571	INITIAL EXAM CALLOWAY (05/2016)	
			TSB 52B	- BIENNIAL PI&R INSPECTION	4
1	02/29/2016	03/04/2016	IP 71152B	Problem Identification and Resolution	
1	03/14/2016	03/18/2016	IP 71152B	Problem Identification and Resolution	
			RS 13 PI	- RADIATION SAFETY	2
1	04/11/2016	04/15/2016	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	04/11/2016	04/15/2016	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1	04/11/2016	04/15/2016	IP 71151-OR01	Occupational Exposure Control Effectiveness	
1	04/11/2016	04/15/2016	IP 71151-PR01	RETS/ODCM Radiological Effluent Occurrences	
			71111.08	- INSERVICE INSPECTION RF21	1
1	04/11/2016	04/22/2016	IP 7111108P	Inservice Inspection Activities - PWR	
			EB1-17T	- CWY PERM PLANT MODS & 50.59 INSPECTION	1
1	06/13/2016	06/27/2016	IP 7111117T	Evaluations of Changes, Tests, and Experiments and Permanent Plant Modifications	
			EP-1	- EP PERFORMANCE INDICATORS	1
1	07/25/2016	07/29/2016	IP 71151-EP01	Drill/Exercise Performance	
1	07/25/2016	07/29/2016	IP 71151-EP02	ERO Readiness	
1	07/25/2016	07/29/2016	IP 71151-EP03	Alert & Notification System Reliability	
			EP-2	- BIENNIAL EP PROGRAM INSPECTION	1
1	07/25/2016	07/29/2016	IP 7111402	Alert and Notification System Testing	
1	07/25/2016	07/29/2016	IP 7111403	Emergency Preparedness Organization Staffing and Augmentation System	

This report does not include INPO and OUTAGE activities.

This report shows only on-site and announced inspection procedures.

Unit Number	Planned Dates Start End	Inspection Activity	Title	No. of Staff on Site
		EP-2	- BIENNIAL EP PROGRAM INSPECTION	
1	07/25/2016 07/29/2016	IP 7111404	Emergency Action Level and Emergency Plan Changes	1
1	07/25/2016 07/29/2016	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
		EB1-07T	- CWY HEAT SINK PERFORMANCE	
1	10/24/2016 10/28/2016	IP 7111107T	Heat Sink Performance	1
		RS 24	- RADIATION SAFETY	
1	11/07/2016 11/11/2016	IP 71124.02	Occupational ALARA Planning and Controls	2
1	11/07/2016 11/11/2016	IP 71124.04	Occupational Dose Assessment	
		RS 5678	- RS TEAM	
1	02/27/2017 03/03/2017	IP 71124.05	Radiation Monitoring Instrumentation	5
1	02/27/2017 03/03/2017	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
1	02/27/2017 03/03/2017	IP 71124.07	Radiological Environmental Monitoring Program	
1	02/27/2017 03/03/2017	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
		EP-2	- BIENNIAL EP EXERCISE INSPECTION	
1	04/24/2017 04/28/2017	IP 7111401	Exercise Evaluation	4
		EP-3	- EP PERFORMANCE INDICATOR VERIFICATION	
1	04/24/2017 04/28/2017	IP 71151-EP01	Drill/Exercise Performance	1
1	04/24/2017 04/28/2017	IP 71151-EP02	ERO Readiness	
1	04/24/2017 04/28/2017	IP 71151-EP03	Alert & Notification System Reliability	
		BRQ	- BIENNIAL REQUAL INSPECTION	
1	06/12/2017 06/16/2017	IP 7111111B	Licensed Operator Requalification Program	2