



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**
REGION IV
1600 E. LAMAR BLVD.
ARLINGTON, TX 76011-4511

March 1, 2017

Mr. Fadi Diya, Senior Vice President
and Chief Nuclear Officer
Ameren Missouri
Callaway Plant
P.O. 620
Fulton, MO 65251

**SUBJECT: ANNUAL ASSESSMENT LETTER FOR CALLAWAY PLANT
(REPORT 05000483/2016006)**

Dear Mr. Diya:

On February 16, 2017, the U.S. Nuclear Regulatory Commission (NRC) completed its end-of-cycle performance assessment of Callaway Plant, reviewing performance indicators (PIs), inspection results, and enforcement actions from January 1, 2016, through December 31, 2016. 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 concluded that overall performance at your facility preserved public health and safety.

The NRC determined the performance at Callaway Plant during the most recent quarter was within the Licensee Response Column, the highest performance category of the NRC's Reactor Oversight Process (ROP) Action Matrix, because all inspection findings had very low safety significance (i.e., Green), and all PIs were within the 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 December 31, 2018. The NRC provides the inspection plan to allow for the resolution of any scheduling conflicts and personnel availability issues. Routine inspections performed by resident inspectors are not included in the inspection plan. The inspections listed during the last twelve months of the inspection plan are tentative and may be revised. 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 the plan for security-related inspections, which will be sent via separate, non-publicly available correspondence.

Additionally, as reflected in the enclosure, during this period the NRC staff will complete Temporary Instruction 2515/191, "Inspection of the Implementation of Mitigation Strategies and Spent Fuel Pool Instrumentation Orders and Emergency Preparedness Communication/Staffing/Multi-Unit Dose Assessment Plans." This inspection will be conducted at Callaway Plant to confirm the station's full implementation of Commission Orders EA-12-049 and EA-12-051.

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, Chief
Projects Branch B
Division of Reactor Projects

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

Enclosure:
Callaway Plant Inspection/Activity Plan

ANNUAL ASSESSMENT LETTER FOR CALLAWAY PLANT (REPORT 05000483/2016006) - DATED MARCH 1, 2017

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 By: NTaylor/dll Yes No Publicly Available Sensitive NRC-002

OFFICE	RIV/DRP:C	DRS:D	DRP:DD			
NAME	NTaylor	AVegel	RLantz			
SIGNATURE	<i>/RA/</i>	<i>/RA JClark for/</i>	<i>/RA/</i>			
DATE	2/23/17	2/23/17	2/27/17			

OFFICIAL RECORD COPY

Callaway
Inspection / Activity Plan
 01/01/2017 - 12/31/2018

Unit Number	Planned Dates Start	Planned Dates End	Inspection Activity	Title	No. of Staff on Site
			ISFSI	- ROUTINE ISFSI INSPECTION	1
1	01/23/2017	01/27/2017	IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants	
			EXAM	- INIT EXAM	3
1	08/14/2017	08/18/2017	X02591	INITIAL EXAM CALLAWAY (09/2017)	
1	09/11/2017	09/15/2017	X02591	INITIAL EXAM CALLAWAY (09/2017)	
			RS 5678	- RS TEAM	4
1	02/27/2017	03/03/2017	IP 71124.05	Radiation Monitoring Instrumentation	
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	5
1	04/24/2017	04/28/2017	IP 7111401	Exercise Evaluation	
1	04/24/2017	04/28/2017	IP 7111404	Emergency Action Level and Emergency Plan Changes	
			BRQ	- BIENNIAL REQUAL INSPECTION	3
1	06/12/2017	06/16/2017	IP 7111111B	Licensed Operator Requalification Program	
			EB1-21M	- CWY COMPONENT DESIGN BASES INSPECTION	6
1	07/17/2017	08/04/2017	IP 7111121M	Component Design Bases Inspection (Teams)	
			TI-191	- MITIGATING STRATEGIES/SFP INST FOR BDBEE	4
1	08/28/2017	09/01/2017	IP 2515/191	Inspection of Licensee's Responses to Order EA-12-049, EA-12-051 & EP Info Request March 12, 2012	
			RS 12 PI	- RADIATION SAFETY	2
1	10/16/2017	10/20/2017	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	10/16/2017	10/20/2017	IP 71124.02	Occupational ALARA Planning and Controls	
1	10/16/2017	10/20/2017	IP 71151-OR01	Occupational Exposure Control Effectiveness	
1	10/16/2017	10/20/2017	IP 71151-PR01	RETS/ODCM Radiological Effluent Occurrences	
			71111.08	- INSERVICE INSPECTION RFO22	1
1	10/16/2017	10/27/2017	IP 7111108P	Inservice Inspection Activities - PWR	
			EP-1	- EP PROGRAM INSPECTION	1
1	04/23/2018	04/27/2018	IP 7111402	Alert and Notification System Testing	
1	04/23/2018	04/27/2018	IP 7111403	Emergency Preparedness Organization Staffing and Augmentation System	
1	04/23/2018	04/27/2018	IP 7111404	Emergency Action Level and Emergency Plan Changes	
1	04/23/2018	04/27/2018	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
1	04/23/2018	04/27/2018	IP 71151-EP01	Drill/Exercise Performance	
1	04/23/2018	04/27/2018	IP 71151-EP02	ERO Readiness	

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

Callaway
Inspection / Activity Plan
 01/01/2017 - 12/31/2018

Unit Number	Planned Dates Start End		Inspection Activity	Title	No. of Staff on Site
			EP-1 - EP PROGRAM INSPECTION		1
1	04/23/2018	04/27/2018	IP 71151-EP03	Alert & Notification System Reliability	
			RS 24 - RAD SAFETY		2
1	05/21/2018	05/25/2018	IP 71124.02	Occupational ALARA Planning and Controls	
1	05/21/2018	05/25/2018	IP 71124.04	Occupational Dose Assessment	
			EB1-17T - CWY 50.59 CHANGES, TESTS, EXPERIMENTS		3
1	08/06/2018	08/10/2018	IP 7111117T	Evaluations of Changes, Tests, and Experiments and Permanent Plant Modifications	
			RS 13PI - RAD SAFETY		2
1	11/05/2018	11/09/2018	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	11/05/2018	11/09/2018	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1	11/05/2018	11/09/2018	IP 71151-OR01	Occupational Exposure Control Effectiveness	
1	11/05/2018	11/09/2018	IP 71151-PR01	RETS/ODCM Radiological Effluent Occurrences	

Comments:

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