



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

March 4, 2019

Mr. Fadi Diya, Senior Vice President  
and Chief Nuclear Officer  
Ameren Missouri  
Callaway Plant  
8315 County Road 459  
Steedman, MO 65077

**SUBJECT: ANNUAL ASSESSMENT LETTER FOR CALLAWAY PLANT  
(REPORT 05000483/2018006)**

Dear Mr. Diya:

The U.S. Nuclear Regulatory Commission (NRC) has completed its end-of-cycle performance assessment of Callaway Plant, reviewing performance indicators (PIs), inspection results, and enforcement actions from January 1, 2018, through December 31, 2018. 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, 2020. This updated inspection plan now includes planned security inspections, which were formerly transmitted under separate correspondence. 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. You should be aware that the agency is pursuing potential changes to the ROP, including changes to engineering inspections (SECY-18-0113, "Recommendations for Modifying the Reactor Oversight Process Engineering Inspections"). Should these changes to the ROP be implemented, the engineering and other region-based inspections are subject to change in scope, as well as schedule, beginning in January 2020. The inspections listed during the last 12 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.

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:  
Inspection Plan

# IP 22 Inspection Activity Plan Report

## Callaway

01/01/2019 - 12/31/2020

Unit	Start	End	Activity	CAC	Title	Staff Count
<b>Security Protective Strategy .05</b>						2
1	01/01/2019	03/13/2019	IP 71130.05	000737	Protective Strategy Evaluation	
1	01/01/2019	03/13/2019	IP 71153	001341	Followup of Events and Notices of Enforcement Discretion	
<b>CW 2019 INITIAL EXAM</b>						4
1	02/03/2019	02/09/2019	OV	000956	VALIDATION OF INITIAL LICENSE EXAMINATION (OV)	
1	03/03/2019	03/09/2019	EXAD	000500	LICENSE EXAM ADMINISTRATION (EXAD)	
<b>CALLAWAY HEAT SINK INSPECTION</b>						2
1	03/04/2019	03/08/2019	IP 71111.07T	000700	Heat Sink Performance -Triennial	
<b>RP INSPECTION (1,2) - RFO</b>						2
1	04/08/2019	04/12/2019	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1	04/08/2019	04/12/2019	IP 71124.02	000726	Occupational ALARA Planning and Controls	
<b>INSERVICE INSPECTION RF23</b>						1
1	04/15/2019	04/26/2019	IP 71111.08P	000702	Inservice Inspection Activities (PWR)	
<b>RP TEAM INSPECTION</b>						4
1	06/10/2019	06/14/2019	IP 71124.05	000729	Radiation Monitoring Instrumentation	
1	06/10/2019	06/14/2019	IP 71124.06	000730	Radioactive Gaseous and Liquid Effluent Treatment	
1	06/10/2019	06/14/2019	IP 71124.07	000731	Radiological Environmental Monitoring Program	
1	06/10/2019	06/14/2019	IP 71124.08	000732	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
<b>Security Access Control .02</b>						1
1	06/24/2019	06/28/2019	IP 71130.02	000734	Access Control	
1	06/24/2019	06/28/2019	IP 71151	001338	Performance Indicator Verification	
<b>TRIENNIAL FIRE PROTECTION INSPECTION</b>						4
1	07/14/2019	07/20/2019	IP 71111.05XT	000697	Fire Protection - NFPA 805 (Triennial)	
1	07/28/2019	08/03/2019	IP 71111.05XT	000697	Fire Protection - NFPA 805 (Triennial)	
<b>CW 2019 BRQ</b>						2
1	07/28/2019	08/03/2019	IP 71111.11B	000704	Licensed Operator Requalification Program and Licensed Operator Performance (Biennial)	

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## Callaway

01/01/2019 - 12/31/2020

Unit	Start	End	Activity	CAC	Title	Staff Count
<b>EP EXERCISE AND PI INSPECTION</b>						4
1	08/12/2019	08/16/2019	IP 71114.01	000716	Exercise Evaluation	
1	08/12/2019	08/16/2019	IP 71151	001397	Performance Indicator Verification	
<b>CALLAWAY DBA PROGRAMS EQ INSPECTION</b>						3
1	08/19/2019	09/06/2019	IP 71111.21N	000714	Design Bases Assurance Inspection (Programs)	
<b>CYBER SECURITY INSPECTION</b>						4
1	09/22/2019	09/28/2019	IP 71130.10P	000741	Cyber Security	
1	10/06/2019	10/12/2019	IP 71130.10P	000741	Cyber Security	
<b>Callaway - Design Bases Assurance Inspection (Teams)</b>						6
1	03/02/2020	03/06/2020	IP 71111.21M	000713	Design Bases Assurance Inspection (Teams)	
1	03/16/2020	03/20/2020	IP 71111.21M	000713	Design Bases Assurance Inspection (Teams)	
<b>BIENNIAL PI&amp;R</b>						4
1	04/20/2020	04/24/2020	IP 71152B	000747	Problem Identification and Resolution	
1	05/04/2020	05/08/2020	IP 71152B	000747	Problem Identification and Resolution	
<b>FORCE-ON-FORCE PLANNING AND EXERCISE WEEKS</b>						6
1	05/11/2020	05/15/2020	IP 71130.03	000735	Contingency Response - Force-On-Force Testing	
1	06/01/2020	06/05/2020	IP 71130.03	000735	Contingency Response - Force-On-Force Testing	
<b>RS24 Radiation Safety</b>						2
1	05/18/2020	05/22/2020	IP 71124.02	000726	Occupational ALARA Planning and Controls	
1	05/18/2020	05/22/2020	IP 71124.04	000728	Occupational Dose Assessment	
<b>CW 2020 INITIAL EXAM</b>						4
1	07/26/2020	08/01/2020	OV	000956	VALIDATION OF INITIAL LICENSE EXAMINATION (OV)	
1	08/30/2020	09/05/2020	EXAD	000500	LICENSE EXAM ADMINISTRATION (EXAD)	
<b>Inservice Inspection RF24</b>						1
1	10/12/2020	10/23/2020	IP 71111.08P	000702	Inservice Inspection Activities (PWR)	
<b>RS12PI Radiation Safety</b>						2
1	10/19/2020	10/23/2020	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1	10/19/2020	10/23/2020	IP 71124.02	000726	Occupational ALARA Planning and Controls	

ANNUAL ASSESSMENT LETTER FOR CALLAWAY PLANT (REPORT 05000483/2018006) –  
March 4, 2019

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**ADAMS ACCESSION NUMBER: ML19053A531**

☒ SUNSI Review      ADAMS:      ☐ Non-Publicly Available      ☒ Non-Sensitive      Keyword:  
By: BKT      ☒ Yes    ☐ No      ☒ Publicly Available      ☐ Sensitive      NRC-002

OFFICE	DRP/SPE:B	DRP/C:B				
NAME	BTharakan	NTaylor				
SIGNATURE	/RA/	/RA/				
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