



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

March 3, 2020

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 05000483/2019006)

Dear Mr. Diya:

The U.S. Nuclear Regulatory Commission (NRC) has completed its end-of-cycle performance assessment of Callaway Plant, reviewing performance indicators, inspection results, and enforcement actions from January 1, 2019, through December 31, 2019. 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 performance indicators were within the expected range (i.e., Green). Therefore, the NRC plans to conduct ROP baseline inspections at your facility.

Additionally, during this period the NRC will schedule an additional inspection per a revised version of Temporary Instruction (TI) 2515/194, "Inspection of the Licensee's Implementation of Industry Initiative Associated with the Open Phase Condition Design Vulnerability in Electrical Power Systems (NRC Bulletin 2012-01)" for any sites who elect to implement the guidance of the Industry Initiative on Open Phase Condition, Revision 3 (Agency Documents Access and Management System (ADAMS) Accession No. ML19163A176), which included an option for relying on annunciation and operator manual actions instead of automatic protective features to isolate a power supply affected by an open phase condition. Licensees will be individually notified when the NRC schedules these inspections.

The enclosed inspection plan lists the inspections scheduled through December 31, 2021. 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”), and other changes to the baseline inspection program described in SECY-19-0067, “Recommendations for Enhancing the Reactor Oversight Process.” 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. 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/

Neil F. O’Keefe, Chief  
Project Branch B  
Division of Reactor Projects

Docket Nos. 05000483  
License Nos. NPF-30

Enclosure:  
Inspection Plan

cc w/ encl: Distribution via LISTSERV

# IP 22 Inspection Activity Plan Report

## 07201045 - Callaway (ISFSI)

01/01/2020 - 12/31/2021

Unit	Start	End	Activity	CAC	Title	Staff Count
<b>Callaway ISFSI Routine Inspection (1 week in May or June)</b>						2
1	05/01/2020	06/30/2020	IP 60855	001001	Operation Of An ISFSI	
1	05/01/2020	06/30/2020	IP 60857	001004	Review of 10 CFR 72.48 Evaluations	

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## Callaway

01/01/2020 - 12/31/2021

Unit	Start	End	Activity	CAC	Title	Staff Count
<b>4Q EAL Change Review</b>						1
1	12/09/2019	01/03/2020	IP 71114.04	000719	Emergency Action Level and Emergency Plan Changes	
<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>Security Access Control .02</b>						1
1	03/09/2020	03/13/2020	IP 71130.02	000734	Access Control	
1	03/09/2020	03/13/2020	IP 71151	001338	Performance Indicator Verification	
<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 - CWY</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>EP Program Inspection</b>						1
1	07/20/2020	07/24/2020	IP 71114.02	000717	Alert and Notification System Testing	
1	07/20/2020	07/24/2020	IP 71114.03	000718	Emergency Response Organization Staffing and Augmentation System	
1	07/20/2020	07/24/2020	IP 71114.04	000719	Emergency Action Level and Emergency Plan Changes	
1	07/20/2020	07/24/2020	IP 71114.05	000720	Maintenance of Emergency Preparedness	
1	07/20/2020	07/24/2020	IP 71151	001397	Performance Indicator Verification	
<b>CW 2020 INITIAL EXAM</b>						4
1	08/02/2020	08/08/2020	OV	000956	VALIDATION OF INITIAL LICENSE EXAMINATION (OV)	
1	08/30/2020	09/05/2020	EXAD	000500	LICENSE EXAM ADMINISTRATION (EXAD)	
<b>Security Equipment .04 and Training .07</b>						2
1	09/21/2020	09/25/2020	IP 71130.04	000736	Equipment Performance, Testing, and Maintenance	
1	09/21/2020	09/25/2020	IP 71130.07	000739	Security Training	

This report does not include INPO and OUTAGE activities.

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

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## Callaway

01/01/2020 - 12/31/2021

Unit	Start	End	Activity	CAC	Title	Staff Count
<b>Inservice Inspection RF24 - CWY</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	
<b>Security FFD .08</b>						1
1	05/03/2021	05/07/2021	IP 71130.08	000740	Fitness For Duty Program	
<b>RP 5,6,7,8 PS Team</b>						5
1	06/14/2021	06/18/2021	IP 71124.05	000729	Radiation Monitoring Instrumentation	
1	06/14/2021	06/18/2021	IP 71124.06	000730	Radioactive Gaseous and Liquid Effluent Treatment	
1	06/14/2021	06/18/2021	IP 71124.07	000731	Radiological Environmental Monitoring Program	
1	06/14/2021	06/18/2021	IP 71124.08	000732	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
<b>MCA - Material Control &amp; Accounting</b>						1
1	06/14/2021	06/18/2021	IP 71130.11	000742	Material Control and Accounting (MC&A)	
<b>CW 2021 BRQ</b>						2
1	06/20/2021	06/26/2021	IP 71111.11B	000704	Licensed Operator Requalification Program and Licensed Operator Performance	
<b>50.59 Inspection 17T - Callaway</b>						3
1	06/21/2021	06/25/2021	IP 71111.17T	000709	Evaluations of Changes, Tests, and Experiments	
<b>Heat Sink Performance 07T - Callaway</b>						2
1	09/13/2021	09/17/2021	IP 71111.07T	000700	Heat Sink Performance	
<b>EP Exercise and PI Inspection</b>						4
1	09/20/2021	09/24/2021	IP 71114.01	000716	Exercise Evaluation	
1	09/20/2021	09/24/2021	IP 71114.04	000719	Emergency Action Level and Emergency Plan Changes	
1	09/20/2021	09/24/2021	IP 71151	001397	Performance Indicator Verification	
<b>RP 1,3,PI</b>						2
1	10/04/2021	10/08/2021	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1	10/04/2021	10/08/2021	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	

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01/01/2020 - 12/31/2021

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<b>Security Access Authorization .01 and Access Control .02 w/PIV</b>						2
1	10/04/2021	10/08/2021	IP 71130.05	000737	Protective Strategy Evaluation	