



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

March 1, 2018

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

SUBJECT: ANNUAL ASSESSMENT LETTER FOR CALLAWAY PLANT
(REPORT 05000483/2017006)

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, 2017 through December 31, 2017. 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 the 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, 2019. 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. 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.

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 the

NRC's document system, Agencywide Documents Access and Management 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 Nos. 50-483
License Nos. NPF-30

Enclosure:
Callaway Inspection Plan

IP 22 Inspection Activity Plan Report

Callaway

01/01/2018 - 12/31/2019

Unit	Start	End	Activity	CAC	Title	Staff Count
BIENNIAL PI&R INSPECTION						4
1	03/26/2018	03/30/2018	IP 71152B	000747	Problem Identification and Resolution	
1	04/09/2018	04/13/2018	IP 71152B	000747	Problem Identification and Resolution	
EP PROGRAM INSPECTION						1
1	04/23/2018	04/27/2018	IP 71114.02	000717	Alert and Notification System Testing	
1	04/23/2018	04/27/2018	IP 71114.03	000718	Emergency Response Organization Staffing and Augmentation System	
1	04/23/2018	04/27/2018	IP 71114.04	000719	Emergency Action Level and Emergency Plan Changes	
1	04/23/2018	04/27/2018	IP 71114.05	000720	Correction of Emergency Preparedness Weaknesses and Deficiencies	
1	04/23/2018	04/27/2018	IP 71151	001397	Performance Indicator Verification	
RAD SAFETY 2,4						2
1	05/21/2018	05/25/2018	IP 71124.02	000726	Occupational ALARA Planning and Controls	
1	05/21/2018	05/25/2018	IP 71124.04	000728	Occupational Dose Assessment	
SECURITY SOLO INSPECTION						1
1	07/23/2018	07/27/2018	IP 71130.02	000734	Access Control	
1	07/23/2018	07/27/2018	IP 71151	001338	Performance Indicator Verification	
CWY 50.59 CHANGES, TESTS, EXPERIMENTS						3
1	08/06/2018	08/10/2018	IP 71111.17T	000709	Evaluations of Changes, Tests, and Experiments	
SECURITY TEAM INSPECTION						2
1	08/27/2018	08/31/2018	IP 71130.04	000736	Equipment Performance, Testing, and Maintenance	
1	08/27/2018	08/31/2018	IP 71130.07	000739	Security Training	
TI 2515/194						2
1	09/10/2018	09/14/2018	TI 2515/194	000512	Inspection of the Licensee's Implementation of Industry Initiative Associated With the Open Phase Condition Design Vulnerabilities In Electric Power Systems (NRC Bulletin 2012-01)	
MAT'L CONTROL & ACCOUNTING						1
1	11/05/2018	11/09/2018	IP 71130.11	000742	Material Control and Accounting (MC&A)	
RAD SAFETY 1,3						2
1	11/05/2018	11/09/2018	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	

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

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RAD SAFETY 1,3						2
1	11/05/2018	11/09/2018	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
1	11/05/2018	11/09/2018	IP 71151	000746	Performance Indicator Verification	
INITIAL EXAM						3
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)	
CALLAWAY HEAT SINK INSPECTION						2
1	03/04/2019	03/08/2019	IP 71111.07T	000700	Heat Sink Performance -Triennial	
SECURITY SOLO INSPECTION						1
1	03/18/2019	03/22/2019	IP 71130.02	000734	Access Control	
1	03/18/2019	03/22/2019	IP 71151	001338	Performance Indicator Verification	
RP INSPECTION						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	
1	04/08/2019	04/12/2019	IP 71151	000746	Performance Indicator Verification	
INSERVICE INSPECTION RF23						1
1	04/15/2019	04/26/2019	IP 71111.08P	000702	Inservice Inspection Activities - PWR	
RP TEAM INSPECTION						5
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	
BRQ						3
1	06/23/2019	06/29/2019	IP 71111.11B	000704	Licensed Operator Requalification Program and Licensed Operator Performance - Biennial	
CWY 3rd QTR RI REPORT						2
1	07/01/2019	09/30/2019	IP 71111.01	000691	Adverse Weather Protection	
1	07/01/2019	09/30/2019	IP 71111.04	000692	Equipment Alignment - 02.01 Partial Walkdown (Quarterly)	

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CWY 3rd QTR RI REPORT						2
1	07/01/2019	09/30/2019	IP 71111.04S	000693	Equipment Alignment - 02.02 Complete Walkdown	
1	07/01/2019	09/30/2019	IP 71111.05A	000694	Fire Protection - Annual	
1	07/01/2019	09/30/2019	IP 71111.05Q	000695	Fire Protection - Quarterly	
1	07/01/2019	09/30/2019	IP 71111.06	000698	Flood Protection Measures	
1	07/01/2019	09/30/2019	IP 71111.07A	000699	Heat Sink Performance - Annual	
1	07/01/2019	09/30/2019	IP 71111.11Q	000705	Licensed Operator Requalification Program and Licensed Operator Performance - Quarterly	
1	07/01/2019	09/30/2019	IP 71111.12	000706	Maintenance Effectiveness	
1	07/01/2019	09/30/2019	IP 71111.13	000707	Maintenance Risk Assessments and Emergent Work Control	
1	07/01/2019	09/30/2019	IP 71111.15	000708	Operability Determinations and Functionality Assessments	
1	07/01/2019	09/30/2019	IP 71111.18	000710	Plant Modifications	
1	07/01/2019	09/30/2019	IP 71111.19	000711	Post Maintenance Testing	
1	07/01/2019	09/30/2019	IP 71111.22	000715	Surveillance Testing	
1	07/01/2019	09/30/2019	IP 71114.06	000721	Drill Evaluation	
1	07/01/2019	09/30/2019	IP 71151	000746	Performance Indicator Verification	
1	07/01/2019	09/30/2019	IP 71152	000748	Problem Identification and Resolution	
1	07/01/2019	09/30/2019	IP 71153	000749	Followup of Events and Notices of Enforcement Discretion	
TRIENNIAL FIRE PROTECTION INSPECTION						4
1	07/08/2019	07/12/2019	IP 71111.05XT	000697	Fire Protection - NFPA 805 (Triennial)	
1	07/22/2019	07/26/2019	IP 71111.05XT	000697	Fire Protection - NFPA 805 (Triennial)	
SECURITY TEAM INSPECTION						2
1	07/22/2019	07/26/2019	IP 71130.05	000737	Protective Strategy Evaluation	
CALLAWAY DBA PROGRAMS EQ INSPECTION						3
1	08/12/2019	08/30/2019	IP 71111.21N	000714	Design Bases Assurance Inspection (Programs)	
EP EXERCISE AND PI INSPECTION						4
1	08/12/2019	08/16/2019	IP 71114.01	000716	Exercise Evaluation	
1	08/12/2019	08/16/2019	IP 71114.04	000719	Emergency Action Level and Emergency Plan Changes	
1	08/12/2019	08/16/2019	IP 71151	001397	Performance Indicator Verification	
CYBER SECURITY INSPECTION						4
1	09/23/2019	09/27/2019	IP 71130.10P	000741	Cyber Security	

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CYBER SECURITY INSPECTION						4
1	10/07/2019	10/11/2019	IP 71130.10P	000741	Cyber Security	
CWY 4th QTR RI REPORT						2
1	10/01/2019	12/31/2019	IP 71111.01	000691	Adverse Weather Protection	
1	10/01/2019	12/31/2019	IP 71111.04	000692	Equipment Alignment - 02.01 Partial Walkdown (Quarterly)	
1	10/01/2019	12/31/2019	IP 71111.04S	000693	Equipment Alignment - 02.02 Complete Walkdown	
1	10/01/2019	12/31/2019	IP 71111.05A	000694	Fire Protection - Annual	
1	10/01/2019	12/31/2019	IP 71111.05Q	000695	Fire Protection - Quarterly	
1	10/01/2019	12/31/2019	IP 71111.06	000698	Flood Protection Measures	
1	10/01/2019	12/31/2019	IP 71111.07A	000699	Heat Sink Performance - Annual	
1	10/01/2019	12/31/2019	IP 71111.11Q	000705	Licensed Operator Requalification Program and Licensed Operator Performance - Quarterly	
1	10/01/2019	12/31/2019	IP 71111.12	000706	Maintenance Effectiveness	
1	10/01/2019	12/31/2019	IP 71111.13	000707	Maintenance Risk Assessments and Emergent Work Control	
1	10/01/2019	12/31/2019	IP 71111.15	000708	Operability Determinations and Functionality Assessments	
1	10/01/2019	12/31/2019	IP 71111.18	000710	Plant Modifications	
1	10/01/2019	12/31/2019	IP 71111.19	000711	Post Maintenance Testing	
1	10/01/2019	12/31/2019	IP 71111.22	000715	Surveillance Testing	
1	10/01/2019	12/31/2019	IP 71114.06	000721	Drill Evaluation	
1	10/01/2019	12/31/2019	IP 71151	000746	Performance Indicator Verification	
1	10/01/2019	12/31/2019	IP 71152	000748	Problem Identification and Resolution	
1	10/01/2019	12/31/2019	IP 71153	000749	Followup of Events and Notices of Enforcement Discretion	

ANNUAL ASSESSMENT LETTER FOR CALLAWAY PLANT (REPORT 05000483/2017006)
 DATED MARCH 1, 2018

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ADAMS ACCESSION NUMBER: ML18052A287

SUNSI Review ADAMS: Non-Publicly Available Non-Sensitive Keyword:
 By: NHT/rdr Yes No Publicly Available Sensitive NRC-002

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DATE	2/20/18	2/20/18	2/20/18	2/26/18	2/23/18	

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