



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

March 3, 2020

Mr. John Dinelli  
Site Vice President  
Entergy Operations, Inc.  
N-TSB-58  
1448 S.R. 333  
Russellville, AR 72802-0967

**SUBJECT: ANNUAL ASSESSMENT LETTER FOR ARKANSAS NUCLEAR ONE, UNITS 1  
AND 2 (REPORT 05000313/2019006 AND 05000368/2019006)**

Dear Mr. Dinelli:

The U.S. Nuclear Regulatory Commission (NRC) has completed its end-of-cycle performance assessment of Arkansas Nuclear One, Units 1 and 2, 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 Arkansas Nuclear One, Units 1 and 2, 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.

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.

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). Licensees will be individually notified when the NRC schedules these inspections.

On March 12, 2018, the NRC issued a Confirmatory Order (ADAMS Accession No. ML18072A191) (EA-17-132 and EA-17-153) to the Entergy fleet that included Arkansas Nuclear One, Units 1 and 2. On January 27, 2020, the NRC initiated a Confirmatory Order follow-up inspection at Entergy Corporate Headquarters in Jackson, MS, of the Confirmatory Order actions required to be completed by the end of calendar year 2019, in accordance with Inspection Procedure 92702, "Follow-up on Traditional Enforcement Actions Including Violations, Deviations, Confirmatory Action Letters, Confirmatory Orders, And Alternative Dispute Resolution Confirmatory Orders." The results of this inspection, which are currently being evaluated, will be documented in NRC Inspection Report 05000416/2020011, 05000313/2020010, and 05000368/2020010, 05000458/2020010, and 05000382/2020011. The NRC plans to conduct future follow-up inspections of the remaining open Confirmatory Order actions required to be completed by Entergy. The NRC will coordinate with Entergy to schedule these inspection activities.

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) 200-1574 with any questions you have regarding this letter.

Sincerely,

/RA/

John L. Dixon, Jr., Chief  
Reactor Projects Branch D  
Division of Reactor Projects

Docket Nos. 05000313 and 05000368  
License Nos. DPR-51 and NPF-6

Enclosure:  
Inspection Plan

cc w/ encl: Distribution via LISTSERV

# IP 22 Inspection Activity Plan Report

## Arkansas Nuclear One

01/01/2020 - 12/31/2021

Unit	Start	End	Activity	CAC	Title	Staff Count
<b>ANO ENTERGY CO FOLLOWUP - 2</b>						2
1, 2	12/01/2019	03/31/2020	IP 92702 CONF	001581	Enforcement Related Order Follow-Up-Only	
<b>ANO 2020 INITIAL EXAM (UNIT 1)</b>						6
1	03/01/2020	03/07/2020	OV	000956	VALIDATION OF INITIAL LICENSE EXAMINATION (OV)	
1	03/29/2020	04/04/2020	EXAD	000500	LICENSE EXAM ADMINISTRATION (EXAD)	
<b>Inservice Inspection 2RF27 - ANO</b>						1
2	03/23/2020	04/03/2020	IP 71111.08P	000702	Inservice Inspection Activities (PWR)	
<b>RS 12PI Radiation Safety</b>						2
1, 2	03/23/2020	03/27/2020	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1, 2	03/23/2020	03/27/2020	IP 71124.02	000726	Occupational ALARA Planning and Controls	
<b>Security Access Control .02</b>						1
1, 2	05/11/2020	05/15/2020	IP 71130.02	000734	Access Control	
1, 2	05/11/2020	05/15/2020	IP 71151	001338	Performance Indicator Verification	
<b>Arkansas Nuclear 1, 2 - Powered Operated Valves Inspection</b>						3
1, 2	06/08/2020	06/12/2020	IP 71111.21N.02	001645	Design-Basis Capability of Power-Operated Valves Under 10 CFR 50.55a Requirements	
1, 2	06/22/2020	06/26/2020	IP 71111.21N.02	001645	Design-Basis Capability of Power-Operated Valves Under 10 CFR 50.55a Requirements	
<b>RS5678 Radiation Safety PS Team</b>						4
1, 2	06/15/2020	06/19/2020	IP 71124.05	000729	Radiation Monitoring Instrumentation	
1, 2	06/15/2020	06/19/2020	IP 71124.06	000730	Radioactive Gaseous and Liquid Effluent Treatment	
1, 2	06/15/2020	06/19/2020	IP 71124.07	000731	Radiological Environmental Monitoring Program	
1, 2	06/15/2020	06/19/2020	IP 71124.08	000732	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
<b>MC&amp;A - Material Control &amp; Accounting</b>						1
1, 2	06/15/2020	06/19/2020	IP 71130.11	000742	Material Control and Accounting (MC&A)	
<b>ANO 2020 BRQ (Unit 2)</b>						2
2	07/05/2020	07/11/2020	IP 71111.11B	000704	Licensed Operator Requalification Program and Licensed Operator Performance	
<b>EP Exercise and PI Inspection</b>						4
1, 2	09/14/2020	09/18/2020	IP 71114.01	000716	Exercise Evaluation	

This report does not include INPO and OUTAGE activities.

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

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<b>EP Exercise and PI Inspection</b>						4
1, 2	09/14/2020	09/18/2020	IP 71114.04	000719	Emergency Action Level and Emergency Plan Changes	
1, 2	09/14/2020	09/18/2020	IP 71151	001397	Performance Indicator Verification	
<b>Security Equipment .04 and Training .07</b>						2
1, 2	10/05/2020	10/09/2020	IP 71130.04	000736	Equipment Performance, Testing, and Maintenance	
1, 2	10/05/2020	10/09/2020	IP 71130.07	000739	Security Training	
<b>ANO UNIT 2 2021 INITIAL EXAM</b>						7
2	02/28/2021	03/06/2021	OV	000956	VALIDATION OF INITIAL LICENSE EXAMINATION (OV)	
2	03/28/2021	04/03/2021	EXAD	000500	LICENSE EXAM ADMINISTRATION (EXAD)	
<b>Security Access Auth .01 and Access Control .02 w/PIV</b>						2
1, 2	03/08/2021	03/12/2021	IP 71130.01	000733	Access Authorization	
1, 2	03/08/2021	03/12/2021	IP 71130.02	000734	Access Control	
1, 2	03/08/2021	03/12/2021	IP 71151	001338	Performance Indicator Verification	
<b>Inservice Inspection 1RF29 - ANO</b>						1
1	04/12/2021	04/23/2021	IP 71111.08P	000702	Inservice Inspection Activities (PWR)	
<b>RP 1,3,PI</b>						2
1, 2	04/19/2021	04/23/2021	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1, 2	04/19/2021	04/23/2021	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
<b>Design Bases Assurance (Teams) 21M - ANO</b>						6
1, 2	06/14/2021	07/02/2021	IP 71111.21M	000713	Design Bases Assurance Inspection (Teams)	
<b>ANO1 2021 BRQ</b>						2
1	06/27/2021	07/03/2021	IP 71111.11B	000704	Licensed Operator Requalification Program and Licensed Operator Performance	
<b>Security FFD .08</b>						1
1, 2	07/19/2021	07/23/2021	IP 71130.08	000740	Fitness For Duty Program	
<b>FORCE-ON-FORCE PLANNING AND EXERCISE WEEKS - ANO</b>						6
1, 2	08/02/2021	08/06/2021	IP 71130.03	000735	Contingency Response - Force-On-Force Testing	
1, 2	08/23/2021	08/27/2021	IP 71130.03	000735	Contingency Response - Force-On-Force Testing	

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<b>EP Program Inspection</b>						1
1, 2	08/16/2021	08/20/2021	IP 71114.02	000717	Alert and Notification System Testing	
1, 2	08/16/2021	08/20/2021	IP 71114.03	000718	Emergency Response Organization Staffing and Augmentation System	
1, 2	08/16/2021	08/20/2021	IP 71114.04	000719	Emergency Action Level and Emergency Plan Changes	
1, 2	08/16/2021	08/20/2021	IP 71114.05	000720	Maintenance of Emergency Preparedness	
1, 2	08/16/2021	08/20/2021	IP 71151	001397	Performance Indicator Verification	
<b>RP 2,4</b>						2
1, 2	08/30/2021	09/03/2021	IP 71124.02	000726	Occupational ALARA Planning and Controls	
1, 2	08/30/2021	09/03/2021	IP 71124.04	000728	Occupational Dose Assessment	
<b>Inservice Inspection 2RF28 - ANO</b>						1
2	09/20/2021	10/01/2021	IP 71111.08P	000702	Inservice Inspection Activities (PWR)	