



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

March 2, 2022

Mr. Joe Sullivan, Site Vice President  
Arkansas Nuclear One  
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 05000313/2021006 AND 05000368/2021006)

Dear Mr. Sullivan:

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 (PIs), inspection results, and enforcement actions from January 1, 2021 through December 31, 2021. 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 baseline inspection program was completed at your facility as defined in Inspection Manual Chapter 2515, "Light-Water Reactor Inspection Program - Operations Phase."

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 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, 2023. 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 response to the COVID-19 public health emergency (PHE), the NRC adjusted inspection plans and schedules in order to safeguard the health and safety of both NRC and licensee staff while still effectively implementing the ROP. While the PHE continues, overall conditions throughout the country support performance of our inspection and oversight activities to return to normal onsite presence by our resident and region-based inspectors and completion of nominal baseline inspection samples. We continue to monitor site-specific conditions and as discussed in our November 2, 2021 memo, "Implementation of Inspection Programs Following Re-Entry from the Public Health Emergency for the Reactor Safety Program" (ML21295A302),

it may be necessary to alter how and when we perform our inspection and oversight activities as we balance the importance of protecting the health and safety of our staff with the need to conduct effective oversight that supports the NRC's critical safety mission. For inspections requiring extensive coordination with offsite organizations, such as evaluated emergency preparedness exercises, NRC guidance and frequently asked questions for security and emergency preparedness can be found here: <https://www.nrc.gov/about-nrc/covid-19/security-ep/>. Similarly, the NRC has developed guidance if force-on-force inspections cannot be completed as scheduled due to an emergency, such as the COVID-19 PHE. These changes help ensure the health and safety of both NRC and licensee staff while maintaining the NRC's important safety and security mission during the COVID-19 PHE. The attached inspection plan is accurate on the date of issuance but remains subject to change based on approval of potential exemption requests or other changes needed due to changing conditions in the COVID-19 PHE. NRC staff will contact your appropriate regulatory affairs staff in order to coordinate inspection planning and scheduling.

The Regional Administrator has approved the staff's plan to conduct Inspection Procedure 71003, "Post-Approval Site Inspection for License Renewal," at your facility as indicated in the enclosed inspection plan.

Inspection procedure (IP) 71111.21N.03 is included in the inspection plan as a placeholder for your next Design Basis Assurance Inspection (Programs), which will be focused on Commercial Grade Dedication. The inspection procedure will be developed and made publicly available before these inspections begin.

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. On January 14, 2022, the NRC issued Inspection Report 05000416/2021010, which documented the completion of a follow-up inspection of Entergy's implementation of actions required by the Confirmatory Order (ML22011A099). The inspection documented in that report represents the final completion of the NRC's planned follow-up inspection activities for the Confirmatory Order, and no additional inspections are included in the enclosed inspection plan.

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 817-200-1491 with any questions you have regarding this letter.

Sincerely,

*/RA/*

Ami N. Agrawal, Chief  
Project Branch D  
Division of Operating Reactor Safety

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

Enclosure:  
Inspection Plan

ANNUAL ASSESSMENT LETTER FOR ARKANSAS NUCLEAR ONE – UNITS 1 AND 2  
(REPORT 05000313/2021006 AND 05000368/2021006)

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DRSS Branch Chiefs  
DORS Branch Chiefs  
Senior Allegations Coordinator  
JDixon-Herrity, DORL, NRR  
ROP Reports  
ROP Assessment

ADAMS ACCESSION NUMBER: ML22053A344

SUNSI Review      ADAMS:       Non-Publicly Available       Non-Sensitive      Keyword:  
By: **PJV**       Yes     No       Publicly Available       Sensitive      NRC-002

OFFICE	SPE: DORS/C	C: DORS/D				
NAME	PVossmar	AAgrawal				
SIGNATURE	<b>/RA/</b>	<b>/RA/</b>				
DATE	2/23/22	02/23/2022				

**OFFICIAL RECORD COPY**

# Site Inspection Activity Plan

## 07200013 - ANO

01/01/2022 - 12/31/2023

Unit	Start	End	Activity	CAC	Title	Staff Count
<b>ANO ISFSI Triennial Loading Inspection (1 week in April)(Part 72)</b>						2
1	4/1/2022	4/30/2022	IP 60855	001001	Operation Of An ISFSI	

# Site Inspection Activity Plan

## Arkansas Nuclear One

01/01/2022 - 12/31/2023

Unit	Start	End	Activity	CAC	Title	Staff Count
<b>Phase 4 71003 Inspection</b>						2
1	1/23/2022	1/29/2022	IP 71003	000687	Post-Approval Site Inspection for License Renewal	
<b>Fire Protection Inspection - ANO</b>						3
2	1/24/2022	2/4/2022	IP 71111.21N.05	001646	Fire Protection Team Inspection (FPTI)	
2	2/14/2022	2/18/2022	IP 71111.21N.05	001646	Fire Protection Team Inspection (FPTI)	
<b>Security Protective Strategy .05</b>						2
2	1/24/2022	1/27/2022	IP 71130.05	000737	Protective Strategy Evaluation	
<b>ANO UNIT 1 2022 INITIAL EXAM</b>						5
1	2/27/2022	3/5/2022	OV	000956	FB-OR-ONSITE VALIDATION OF INITIAL LICENSE EXAMINATION (OV)	
1	4/3/2022	4/9/2022	EXAD	000500	FB-OR-INITIAL LICENSE EXAM ADMINISTRATION (EXAD)	
<b>ANO ISFSI Triennial Loading Inspection (Part 50) Feeder for Residents</b>						2
2	4/1/2022	4/2/2022	IP 60855	001001	Operation Of An ISFSI	
<b>10 CFR 50.59 Inspection - 17T - Arkansas Nuclear</b>						3
2	5/16/2022	5/20/2022	IP 71111.17T	000709	Evaluations of Changes, Tests, and Experiments	
<b>Security Training/Equip Maint .07 and .04</b>						2
2	5/16/2022	5/20/2022	IP 71130.04	000736	Equipment Performance, Testing, and Maintenance	
2	5/16/2022	5/20/2022	IP 71130.07	000739	Security Training	
<b>ANO UNIT 2 2022 BRQ</b>						3
2	6/26/2022	7/2/2022	IP 71111.11B	000704	Licensed Operator Requalification Program and Licensed Operator Performance	
<b>RP 5,8 - ANO</b>						2
2	6/27/2022	7/1/2022	IP 71124.05	000729	Radiation Monitoring Instrumentation	
2	6/27/2022	7/1/2022	IP 71124.08	000732	Radioactive Solid Waste Processing & Radioactive Material Handling, Storage, & Transportation	
<b>EP 2022 Biennial Exercise &amp; PI Inspection - ANO</b>						4
2	8/8/2022	8/12/2022	IP 71114.01	000716	Exercise Evaluation	
2	8/8/2022	8/12/2022	IP 71114.04	000719	Emergency Action Level and Emergency Plan Changes	
2	8/8/2022	8/12/2022	IP 71151	001397	Performance Indicator Verification	
<b>Heat Exchanger/Sink Performance Inspection - 07T - Arkansas Nuclear</b>						2
2	8/22/2022	8/26/2022	IP 71111.07T	000700	Heat Exchanger/Sink Performance	
<b>Target Set Inspection -ANO</b>						3
2	8/29/2022	9/16/2022	IP 71130.14	000743	Review of Power Reactor Target Sets	
<b>Security Access Control .02</b>						1

# Site Inspection Activity Plan

2	9/12/2022	9/16/2022	IP 71130.02	000734	Access Control	
2	9/12/2022	9/16/2022	IP 71130.09	001656	Security Plan Changes	
2	9/12/2022	9/16/2022	IP 71151	001338	Performance Indicator Verification	
<b>Inservice Inspection 1RF30 - ANO</b>						1
1	10/10/2022	10/21/2022	IP 71111.08P	000702	Inservice Inspection Activities (PWR)	
<b>RP 1,3,PI - ANO</b>						2
2	10/17/2022	10/21/2022	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
<b>Design Bases Assurance Inspection (Program) – 21N – Arkansas Nuclear</b>						3
2	1/1/2023	6/30/2023	IP 71111.21N.03		Design Bases Assurance Inspections (Programs) 2023 (Commercial Grade Dedication)	
<b>Cyber Security Inspection - ANO</b>						4
2	2/6/2023	2/9/2023	IP 71130.10	000741	Cybersecurity	
<b>ANO UNIT 2 2023 INITIAL EXAM</b>						4
2	1/29/2023	2/4/2023	OV	000956	FB-OR-ONSITE VALIDATION OF INITIAL LICENSE EXAMINATION (OV)	
2	3/5/2023	3/11/2023	EXAD	000500	FB-OR-INITIAL LICENSE EXAM ADMINISTRATION (EXAD)	
<b>RP 1,4,PI -</b>						2
2	3/27/2023	3/31/2023	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
2	3/27/2023	3/31/2023	IP 71124.04	000728	Occupational Dose Assessment	
<b>Security Access Authorization .01 - Access Control .02 + PIV + Plan Change .09</b>						2
2	6/5/2023	6/9/2023	IP 71130.01	000733	Access Authorization	
2	6/5/2023	6/9/2023	IP 71130.02	000734	Access Control	
2	6/5/2023	6/9/2023	IP 71130.09	001656	Security Plan Changes	
2	6/5/2023	6/9/2023	IP 71151	001338	Performance Indicator Verification	
<b>RP 6,7</b>						2
2	6/12/2023	6/16/2023	IP 71124.06	000730	Radioactive Gaseous and Liquid Effluent Treatment	
2	6/12/2023	6/16/2023	IP 71124.07	000731	Radiological Environmental Monitoring Program	
<b>ANO UNIT 1 2023 BRQ</b>						3
1	7/9/2023	7/15/2023	IP 71111.11B	000704	Licensed Operator Requalification Program and Licensed Operator Performance	
<b>ANO Biennial PI&amp;R</b>						4
2	8/7/2023	8/11/2023	IP 71152B	000747	Problem Identification and Resolution	
2	8/21/2023	8/25/2023	IP 71152B	000747	Problem Identification and Resolution	
<b>EP 2023 Program Inspection - ANO</b>						1
2	8/28/2023	9/1/2023	IP 71114.02	000717	Alert and Notification System Testing	
2	8/28/2023	9/1/2023	IP 71114.03	000718	Emergency Response Organization Staffing and Augmentation System	
2	8/28/2023	9/1/2023	IP 71114.04	000719	Emergency Action Level and Emergency Plan Changes	
2	8/28/2023	9/1/2023	IP 71114.05	000720	Maintenance of Emergency Preparedness	

# Site Inspection Activity Plan

2	8/28/2023	9/1/2023	IP 71151	001397	Performance Indicator Verification
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## **FORCE-ON-FORCE PLANNING AND EXERCISE - ANO**

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2	11/13/2023	11/17/2023	IP 71130.03	000735	Contingency Response - Force-On-Force Testing
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2	12/11/2023	12/15/2023	IP 71130.03	000735	Contingency Response - Force-On-Force Testing
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## **Security FFD .08**

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2	11/13/2023	11/17/2023	IP 71130.08	000740	Fitness For Duty Program
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## **MC&A -**

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2	11/27/2023	12/1/2023	IP 71130.11	000742	Material Control and Accounting (MC&A)
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