



UNITED STATES  
NUCLEAR REGULATORY COMMISSION

REGION IV  
1600 EAST LAMAR BOULEVARD  
ARLINGTON, TEXAS 76011-4511

July 28, 2021

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

SUBJECT: ARKANSAS NUCLEAR ONE, UNIT 1 – NOTIFICATION OF POST-APPROVAL SITE INSPECTION FOR LICENSE RENEWAL (PHASE 4) (NRC INSPECTION REPORT 05000313/2021013) AND REQUEST FOR INFORMATION

Dear Mr. Dinelli:

The purpose of this letter is to notify you that the U.S. Nuclear Regulatory Commission (NRC) Region IV staff will perform a Phase 4 License Renewal Inspection at the Arkansas Nuclear One, Unit 1 from December 6 – 10, 2021. The inspectors will conduct the inspection in accordance with NRC inspection procedure 71003, "Post-Approval Site Inspection for License Renewal."

Inspection insights suggest that this inspection will be resource-intensive for both the NRC inspectors and your staff. To minimize the impact to your onsite resources and to ensure a productive inspection, we have enclosed a request for documents needed for this inspection. Section A of the enclosure identifies information to be provided by September 1, 2021, to ensure adequate sample selection and preparation. Section B of the enclosure identifies additional information the inspectors will need by November 8, 2021, to complete the review of inspection samples. The inspection staff will appreciate if all the documents requested are up to date and complete to minimize the number of additional documents requested during the preparation and/or the onsite portions of the inspection.

We have discussed the schedule for these inspection activities with your staff and understand that our regulatory contact for this inspection will be Natalie Mosher at 479-858-4635 of your organization. If there are any questions about this inspection or the material requested, please contact the lead inspector, Greg Pick at 817-504-2105 (m), 817-200-1270 (w) or [greg.pick@nrc.gov](mailto:greg.pick@nrc.gov).

PAPERWORK REDUCTION ACT STATEMENT

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the Chief Information Officer, Mail Stop: T6 A10M, U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by e-mail to [Infocollects.Resource@nrc.gov](mailto:Infocollects.Resource@nrc.gov), and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0011) Office of Management and Budget, Washington, DC 20503.

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Sincerely,

*Greg Pick*

Greg Pick  
Senior Reactor Inspector  
Engineering Branch 2  
Division of Reactor Safety

Dockets: 50-313  
Licenses: DPR-51

Enclosure:  
Phase 4 Inspection Information Request

cc w/ encl: Distribution via LISTSERV®

ARKANSAS NUCLEAR ONE, UNIT 1 – NOTIFICATION OF POST-APPROVAL SITE INSPECTION FOR LICENSE RENEWAL (PHASE 4) (NRC INSPECTION REPORT 05000313/2021013) AND REQUEST FOR INFORMATION – DATED JULY 28, 2021

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## **Arkansas Nuclear One, Unit 1 Inspection Information Request**

Please provide the information requested in Section A to the NRC Region IV Office in care of the lead inspector by September 1, 2021, in order to facilitate the selection of specific structures, systems and components that will be reviewed during the onsite inspection week. The information can be provided in hard copy or electronic format; however, electronic format is preferred, either by digital data storage device or web-based document management system.

Using the information provided in Section A, the inspectors will request additional documents needed for the onsite inspection week as described in Section B of this enclosure by September 27, 2021. The specific documents in Section B should be available and ready for review no later than November 8, 2021. If there are any questions regarding this information request, please contact the lead inspector as soon as possible.

### **A. Information requested for each aging management program listed below (as applicable)**

The following aging management programs have been selected for this inspection:

1. Buried Pipe Inspection Program
2. Non-EQ Inaccessible Medium-Voltage Cables and Manholes
3. Reactor Vessel Internals Program
4. Wall Thinning Inspection Program
5. Service Water Chemical Control Program
6. Fire Water Piping Thickness Evaluation Program
7. Flow Accelerated Corrosion Program
8. Maintenance Rule Structural Program & IWL
9. Service Water Integrity
10. Selective Leaching

From the list above, please identify the aging management programs where the results of one-time inspections concluded that no follow-up actions were required during the period of extended operation. Please provide the information requested below for each aging management program to the lead inspector no later than September 1, 2021.

1. Provide a list of all newly identified structures, systems and/or components that have been incorporated into the aging management program(s), or any aging management program, since entering the period of extended operation.
2. Provide a list of commitment changes incorporated into the aging management program, or any aging management program, since entering the period of extended operation.
3. Program basis documents and administrative procedures describing key program attributes such as program objectives, scope, detection and monitoring methods, administrative controls, acceptance criteria, corrective actions, and scope expansion requirements
4. Implementing procedures for program activities (e.g. visual examination procedures,

ultrasonic examination procedures, maintenance procedures, system walkdowns, etc)

5. "Gap analyses" performed to assess the differences between the current aging management program and therecommendations in the latest revision of NUREG-1801, "Generic Aging Lessons Learned (GALL)," and any subsequent Interim Staff Guidance
6. Self-assessments performed after entering the period of extended operation.
7. Copy of evaluations performed for applicable external and internal operating experience issues associated with license renewal. This request is limited to operating experience items issued after entering the period of extended operation.
8. Description of instances where examination scope expansion or additional inspections to determine extent of condition was required based on the initial examination of a structure, system and/or component for license renewal. Please describe the logic to select the scope expansion, and any resulting changes to the aging management program.
9. List of corrective action documents (e.g., Condition Reports) associated with the implementation of the aging management program. This includes unacceptable aging effects identified during the implementationof license renewal activities, and programmatic deficiencies requiring resolution since entering the period of extended operation.
10. Provide license renewal program administrative or program implementing procedure that describes responsibilities of program owners, processing of operating experience related to aging management, required training and qualifications, and any other administrative controls.
11. Provide the current operating experience, corrective action program, and self-assessment administrative procedures. Also, include administrative procedures related to changing commitments and revising license basis documents.
12. Provide copies of any UFSAR changes related to license renewal, include the change notices and 10 CFR 50.59 related documentation.

**B. Information requested for each license renewal structure, system and/or component selected for review (as applicable)**

By September 27, 2021, the inspector(s) will select a sample of structures, systems, and/or components (as applicable) using the information provided in response to Section A of this enclosure. Please provide the information requested below to the lead inspector by November 8, 2021.

For all aging management programs, except the aging management programs where the results of one-time inspections concluded that no follow-up actions were required during the period of extended operation, provide the following, as applicable, for each license renewal structure, system, and/or component selected for review:

1. A walkdown schedule for all structures and components selected that are readily accessible at the time of the inspection.
2. The scope and frequency of activities (i.e. inspection, sampling, testing, etc) used to manage the aging of the item since entering the period of extended operation.
3. Completed work orders for the most recent aging management activities performed, including associated inspection and testing reports, as applicable. This request is limited to work performed in the period of extended operation or last two inspections, whichever is greater. If more than 10 work orders provide a list.
4. Structure, system, or component specific evaluation for monitoring and trending of aging effects.
5. Description of instances where examination of the structure or component was eliminated or deferred.
6. Description of instances where examination scope changes were required based on limitations encountered during the examination.
7. Description of instances where examination scope changes were required based on results of the previous examination.
8. A list with a brief description of the aging related issues documented in the corrective action program since entering the period of extended operation. For example, provide a list of condition reports based upon database searches using keywords related to aging related degradation of the component or structure selected such as: crack, corrosion, wear, thinning, leakage, thru-wall, rust.

For aging management programs where the results of one-time inspections concluded that no follow-up actions were required during the period of extended operation, provide the following for each structure or component selected for review:

1. A walkdown schedule for all structures and components that are accessible during the inspection.
2. A list with a brief description of the aging related issues entered the corrective action program since entering the period of extended operation. For example, provide a list of condition reports based upon database searches using keywords related to aging related degradation of the component or structure selected such as: crack, corrosion, wear, thinning, leakage, thru-wall, rust.