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2CAN112101

November 19, 2021

ATTN: Document Control Desk
U. S. Nuclear Regulatory Commission
Washington, DC 20555-0001

Subject: Licensee Event Report 50-368/2021-001-00, Non-Compliance with Technical Specifications Resulting in Lack of Nuclear Instrumentation Audible Indication

Arkansas Nuclear One – Unit 2
NRC Docket No. 50-368
Renewed Facility Operating License No. NPF-6

Pursuant to the reporting requirements of 10 CFR 50.73, attached is the subject Licensee Event Report concerning non-compliance with the nuclear instrumentation audible indication in the control room required by Arkansas Nuclear One, Unit 2 Technical Specification 3.9.2 which occurred on October 1, 2021.

There are no new commitments contained in this submittal. Should you have any questions concerning this issue, please contact Riley D. Keele Jr., Manager, Regulatory Assurance, at 479-858-7826.

Respectfully,

ORIGINAL SIGNED BY RILEY D. KEELE, JR.

Riley D. Keele, Jr.
RDK/nbm

Enclosure: Licensee Event Report 50-368/2021-001-00

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cc: NRC Region IV Regional Administrator
NRC Senior Resident Inspector – Arkansas Nuclear One
NRC Project Manager – Arkansas Nuclear One

Enclosure to

2CAN112101

Licensee Event Report 50-368/2021-001-00



LICENSEE EVENT REPORT (LER)

(See Page 3 for required number of digits/characters for each block)

(See NUREG-1022, R.3 for instruction and guidance for completing this form
<https://www.nrc.gov/reading-rm/doc-collections/nureqs/staff/sr1022/r3/>)

Estimated burden per response to comply with this mandatory collection request: 80 hours. Reported lessons learned are incorporated into the licensing process and fed back to industry. Send comments regarding burden estimate to the FOIA, Library, and Information Collection Branch (T-6 A10M), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by e-mail to Infocollects.Resource@nrc.gov, and the OMB reviewer at: OMB Office of Information and Regulatory Affairs, (3150-0104), Attn: Desk Officer for the Nuclear Regulatory Commission, 725 17th Street NW, Washington, DC 20503; e-mail: oir_submission@omb.eop.gov. The NRC may not conduct or sponsor, and a person is not required to respond to, a collection of information unless the document requesting or requiring the collection displays a currently valid OMB control number.

1. Facility Name Arkansas Nuclear One, Unit 2	2. Docket Number 05000 - 0368	3. Page 1 OF 2
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4. Title
Non-Compliance with Technical Specifications Resulting in Lack of Nuclear Instrumentation Audible Indication

5. Event Date			6. LER Number			7. Report Date			8. Other Facilities Involved	
Month	Day	Year	Year	Sequential Number	Rev No.	Month	Day	Year	Facility Name	Docket Number
10	01	2021	2021	- 001 -	00	11	19	2021	n/a	n/a
									Facility Name	Docket Number
									n/a	n/a

9. Operating Mode 6	10. Power Level 0
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11. This Report is Submitted Pursuant to the Requirements of 10 CFR §: (Check all that apply)

10 CFR Part 20	<input type="checkbox"/> 20.2203(a)(2)(vi)	<input type="checkbox"/> 50.36(c)(2)	<input type="checkbox"/> 50.73(a)(2)(iv)(A)	<input type="checkbox"/> 50.73(a)(2)(x)
<input type="checkbox"/> 20.2201(b)	<input type="checkbox"/> 20.2203(a)(3)(i)	<input type="checkbox"/> 50.46(a)(3)(ii)	<input type="checkbox"/> 50.73(a)(2)(v)(A)	10 CFR Part 73
<input type="checkbox"/> 20.2201(d)	<input type="checkbox"/> 20.2203(a)(3)(ii)	<input type="checkbox"/> 50.69(g)	<input type="checkbox"/> 50.73(a)(2)(v)(B)	<input type="checkbox"/> 73.71(a)(4)
<input type="checkbox"/> 20.2203(a)(1)	<input type="checkbox"/> 20.2203(a)(4)	<input type="checkbox"/> 50.73(a)(2)(i)(A)	<input type="checkbox"/> 50.73(a)(2)(v)(C)	<input type="checkbox"/> 73.71(a)(5)
<input type="checkbox"/> 20.2203(a)(2)(i)	10 CFR Part 21	<input checked="" type="checkbox"/> 50.73(a)(2)(i)(B)	<input type="checkbox"/> 50.73(a)(2)(v)(D)	<input type="checkbox"/> 73.77(a)(1)(i)
<input type="checkbox"/> 20.2203(a)(2)(ii)	<input type="checkbox"/> 21.2(c)	<input type="checkbox"/> 50.73(a)(2)(i)(C)	<input type="checkbox"/> 50.73(a)(2)(vii)	<input type="checkbox"/> 73.77(a)(2)(i)
<input type="checkbox"/> 20.2203(a)(2)(iii)	10 CFR Part 50	<input type="checkbox"/> 50.73(a)(2)(ii)(A)	<input type="checkbox"/> 50.73(a)(2)(viii)(A)	<input type="checkbox"/> 73.77(a)(2)(ii)
<input type="checkbox"/> 20.2203(a)(2)(iv)	<input type="checkbox"/> 50.36(c)(1)(i)(A)	<input type="checkbox"/> 50.73(a)(2)(ii)(B)	<input type="checkbox"/> 50.73(a)(2)(viii)(B)	
<input type="checkbox"/> 20.2203(a)(2)(v)	<input type="checkbox"/> 50.36(c)(1)(ii)(A)	<input type="checkbox"/> 50.73(a)(2)(iii)	<input type="checkbox"/> 50.73(a)(2)(ix)(A)	

Other (Specify here, in Abstract, or in NRC 366A).

12. Licensee Contact for this LER

Licensee Contact Riley D. Keele / Manager, Regulatory Assurance	Phone Number (Include Area Code) (479) 858-7826
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13. Complete One Line for each Component Failure Described in this Report

Cause	System	Component	Manufacturer	Reportable To IRIS	Cause	System	Component	Manufacturer	Reportable To IRIS
D	IG	SPK	G077	Y					

14. Supplemental Report Expected				15. Expected Submission Date		
<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes (If yes, complete 15. Expected Submission Date)			Month	Day	Year

16. Abstract (Limit to 1560 spaces, i.e., approximately 15 single-spaced typewritten lines)

On October 1, 2021, at Arkansas Nuclear One, Unit 2 (ANO-2) it was discovered that the audible counts for the source range nuclear instrumentation could not be heard in the control room as required by ANO-2 Technical Specification 3.9.2 during Mode 6, Refueling. The volume for the audible indication in the control room was turned down to a setting that could not be heard in the control room. Prior to entering Mode 6, the audible counts for both the containment building and the control room were verified to be operable. The checklist utilized for audible count verification incorrectly specified a mode of applicability for the audible indication of during fuel movement instead of Mode 6 which conflicted with the ANO-2 Technical Specifications. The cause of the event was determined to be inadequate procedural guidance which has been corrected.

There were no consequences to the safety of the general public, nuclear safety, industrial safety or radiological safety created by this event.



**LICENSEE EVENT REPORT (LER)
CONTINUATION SHEET**

(See NUREG-1022, R.3 for instruction and guidance for completing this form
<https://www.nrc.gov/reading-rm/doc-collections/nuregs/staff/sr1022/r3/>)

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1. FACILITY NAME	2. DOCKET NUMBER	3. LER NUMBER		
		YEAR	SEQUENTIAL NUMBER	REV NO.
Arkansas Nuclear One, Unit 2	05000-0368	2021	- 001	- 00

NARRATIVE

PLANT STATUS

Arkansas Nuclear One, Unit 2 (ANO-2) was shut down for a refueling outage and in Mode 6. There were no other structures, systems, or components that were inoperable at the time that contributed to the event.

EVENT DESCRIPTION

On October 1, 2021, at ANO-2 it was discovered that the audible counts for the source range nuclear instrumentation [IG] could not be heard in the control room as required by Technical Specification 3.9.2. ANO-2 Technical Specification 3.9.2 requires that as a minimum, two source range neutron flux monitors shall be operating, each with continuous visual indication in the control room and one with audible indication in the containment and control room during Mode 6, Refueling. The volume for the audible indication in the control room was turned down to a setting that could not be heard in the control room. Prior to entering Mode 6, the audible counts for both the containment building and the control room were verified to be operable.

This event is being reported under 10 CFR 50.73(a)(2)(i)(B) which requires submittal of a Licensee Event Report within 60 days after the discovery for any operation or condition that was prohibited by the plant's technical specifications.

SAFETY ASSESSMENT

Failure to comply with the requirements of ANO-2 Technical Specification 3.9.2 did not result in any consequences to the safety of the general public, nuclear safety, industrial safety, or radiological safety. At the time of the event, fuel movement activities had not commenced other than control rod uncoupling, and no activities were in progress that could have challenged the boron concentration of the reactor coolant system (RCS). The safety significance of this event is determined to be low.

EVENT CAUSE(S)

Operations procedures for draining the RCS and refueling shuffle verify audible indication for source range counts is operable in the control room and containment building as required by ANO-2 Technical Specification 3.9.2. The ANO-2 Operations Shutdown Cooling (SDC) Log/Task Checklist however, incorrectly specified a mode of applicability for the audible indication as during fuel movement vice Mode 6. This conflicted with the ANO-2 Technical Specifications. The event cause was determined to be inadequate procedural guidance.

CORRECTIVE ACTIONS

The ANO-2 SDC Log/Task Checklist has been revised to require audible indication to be checked during each shift while in Mode 6.

PREVIOUS SIMILAR EVENTS

None.