

Power Reactor

Event # 41702

Site: ARKANSAS NUCLEAR		Notification Date / Time: 05/17/2005 11:24 (EDT)				
Unit: 2	Region: 4	State : AR	Event Date / Time: 03/19/2005 (CDT)			
Reactor Type: [1] B&W-L-LP,[2] CE		Last Modification: 05/17/2005				
Containment Type: DRY AMB DRY AMB						
NRC Notified by: RICHARD SCHEIDE		Notifications: REBECCA NEASE R4				
HQ Ops Officer: CHAUNCEY GOULD		OMID TABATABAI NRR				
Emergency Class: NON EMERGENCY						
10 CFR Section:						
21.21	UNSPECIFIED PARAGRAPH					
Unit	Scram Code	RX Crit	Init Power	Initial RX Mode	Curr Power	Current RX Mode
2	N	No	0	Refueling	0	Refueling

PART 21 FOR A FLEX - WEDGE DISC FABRICATED BY CRANE - ALOYCO

"On March 19, 2005, during refueling Outage 2R17, it was identified that a Flex-wedge disc intended for installation in a Containment Sump isolation valve, did not have a machined slot around the disc edge, as required by the purchase specifications. A feature of the flex-wedge design is to allow the disc faces to flex, thereby reducing the potential for thermal binding. The discrepancy was identified during pre-installation inspection; therefore, the disc was not installed in the plant. Considering that extensive machining and handling of the disc is necessary during installation, it is extremely unlikely that the discrepancy could have gone undetected. The outboard containment sump isolation valve is normally closed and receives a Recirculation Actuation Signal (RAS) to open when the Refueling Water Tank volume is depleted (post-LOCA) in order to shift the Emergency Core Cooling System (ECCS) suction to the sump. Had the subject disc been installed in this valve, the discrepancy could have resulted in thermal binding of the disc, thereby rendering a complete train of ECCS inoperable upon initiation of a RAS. The subject disc was manufactured by Crane - Aloyco, and was delivered to Arkansas Nuclear One in 1991."

"This condition was determined to be reportable pursuant to 10CFR21 on 5/17/2005."

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41702

ARKANSAS NUCLEAR ONE		PAGE: 2
E-DOC TITLE: GUIDELINES FOR EMERGENCY NOTIFICATIONS	E-DOC NO. 1015.047-ATT-A	CHANGE NO. 000-00-0

Form Used by the NRC for ETS Calls (Page 1 of 2)

NRC FORM 361 (12-2000)	<b>REACTOR PLANT EVENT NOTIFICATION WORKSHEET</b>	U. S. NUCLEAR REGULATORY COMMISSION OPERATIONS CENTER EN#
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NRCOPERATION TELEPHONE NUMBER: PRIMARY - 301-816-5100\*, BACKUPS - (1st) 301-951-0550\*, (2nd) 301-415-0550 and (3rd) 301-415-0553 \*Licensees who maintain their own ETS are provided these telephone numbers.

NOTIFICATION TIME	FACILITY OR ORGANIZATION Arkansas Nuclear One	UNIT 2	CALLER'S NAME R.H. Schelde	CALLBACK # 479-858-4618
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EVENT TIME & ZONE N/A	EVENT DATE N/A	POWER / MODE BEFORE N/A	POWER / MODE AFTER N/A
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EVENT CLASSIFICATIONS		8-Hr Non-Emergency 10CFR 50.72(b)(3)	
<input type="checkbox"/> GENERAL EMERGENCY	GEN/AAEC	<input type="checkbox"/> (ii)(A) Degraded Condition	ADEG
<input type="checkbox"/> SITE AREA EMERGENCY	SIT/AAEC	<input type="checkbox"/> (ii)(B) Unanalyzed Condition	AUNA
<input type="checkbox"/> ALERT	ALE/AAEC	<input type="checkbox"/> (iv)(A) Specified System Actuation	AESF
<input type="checkbox"/> UNUSUAL EVENT	UNU/AAEC	<input type="checkbox"/> (v)(A) Safe S/D Capability	AINA
<input type="checkbox"/> 50.72 NON-EMERGENCY	<i>(below &amp; next column)</i>	<input type="checkbox"/> (v)(B) RHR Capability	AINB
<input type="checkbox"/> PHYSICAL SECURITY (73.71)	DDDD	<input type="checkbox"/> (v)(C) Control of Rad Release	AINC
<input type="checkbox"/> MATERIAL EXPOSURE	B???	<input type="checkbox"/> (v)(D) Accident Mitigation	AIND
<input type="checkbox"/> FITNESS FOR DUTY	HFIT	<input type="checkbox"/> (xii) Offsite Medical	AMED
<input type="checkbox"/> OTHER UNSPECIFIED REQMT.	<i>(next column)</i>	<input type="checkbox"/> (xiii) Loss Comm/Asmt/Resp	ACOM
<input type="checkbox"/> INFORMATION ONLY	NNF	<b>60-DAY OPTIONAL 10CFR 50.73(a)(1)</b>	
1-Hr Non-Emergency 10CFR 50.72(b)(1)		<input type="checkbox"/>	Invalid Specified System Actuation AINV
<input type="checkbox"/> TS Deviation	ADEV	<b>Other Unspecified Requirement (Identify)</b>	
4-Hr Non-Emergency 10CFR 50.72(b)(2)		<input checked="" type="checkbox"/>	NONR
<input type="checkbox"/> (i) TS Required S/D	ASHU	<input type="checkbox"/>	NONR
<input type="checkbox"/> (iv)(A) ECCS Discharge to RCS	ACCS		
<input type="checkbox"/> (iv)(B) RPS Actuation (scram)	ARPS		
<input type="checkbox"/> (xi)(B) Offsite Notification	APRE		

**DESCRIPTION**

Include: Systems affected, actuations & their initiating signals, causes, effect of event on plant, actions taken or planned, etc.

On March 19, 2005, during refueling Outage 2R17, it was identified that a Flex-wedge disc intended for installation in a Containment Sump Isolation valve, did not have a machined slot around the disc edge, as required by the purchase specifications. A feature of the flex-wedge design is to allow the disc faces to flex, thereby reducing the potential for thermal binding. The discrepancy was identified during pre-installation inspection; therefore, the disc was not installed in the plant. Considering that extensive machining and handling of the disc is necessary during installation, it is extremely unlikely that the discrepancy could have gone undetected. The outboard containment sump isolation valve is normally closed and receives a Recirculation Actuation Signal (RAS) to open when the Refueling Water Tank volume is depleted (post-LOCA) in order to shift the Emergency Core Cooling System (ECCS) suction to the sump. Had the subject disc been installed in this valve, the discrepancy could have resulted in thermal binding of the disc, thereby rendering a complete train of ECCS inoperable upon initiation of a RAS. The subject disc was manufactured by Crane-Aloyco, and was delivered to Arkansas Nuclear One in 1991.

This condition was determined to be reportable pursuant to 10CR21 on 5/17/2005.

NOTIFICATIONS	YES	NO	WILL BE	Anything unusual or not understood?	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
NRC RESIDENT	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		(Explain above)	
STATE(s)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Did all systems function as required?	<input type="checkbox"/> YES	<input type="checkbox"/> NO
LOCAL	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>			(Explain above)
OTHER GOV AGENCIES	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Mode of operation until corrected: N/A	Estimated restart date: N/A	Additional info on back?
MEDIA/PRESS RELEASE	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO