

L I C E N S E E E V E N T R E P O R T ( L E R )

FACILITY NAME (1) Arkansas Nuclear One, Unit One | DOCKET NUMBER (2) | PAGE (3)  
| 0151010101 31 11 3110F1012

TITLE (4) Fire Suppression System Sprinkler Head Missing

EVENT DATE (5)			LER NUMBER (6)			REPORT DATE (7)			OTHER FACILITIES INVOLVED (8)	
Month	Day	Year	Year	Sequential Number	Revision Number	Month	Day	Year	Facility Names	Docket Number(s)
11	11	85	85	01	01	11	09	86		0151010101

OPERATING MODE (9) | 1 | THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §:

OPERATING MODE (9)	(10)	(11)	(12)
1	1	(Check one or more of the following)	
POWER LEVEL	20.402(b)	20.405(a)(1)(i)	20.405(c)
(10)	20.405(a)(1)(ii)	50.36(c)(1)	50.73(a)(2)(iv)
	20.405(a)(1)(iii)	50.36(c)(2)	50.73(a)(2)(v)
	20.405(a)(1)(iv)	50.73(a)(2)(i)	50.73(a)(2)(vii)
	20.405(a)(1)(v)	50.73(a)(2)(ii)	50.73(a)(2)(viii)(A)
		50.73(a)(2)(iii)	50.73(a)(2)(viii)(B)
			50.73(a)(2)(x)

LICENSEE CONTACT FOR THIS LER (12)

Name	Telephone Number
Dwight J. Johnson, Plant Licensing Engineer	Area   Code   5101191614-1311010

COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)

Cause	System	Component	Manufacturer	Reportable to NPRDS	Cause	System	Component	Manufacturer	Reportable to NPRDS

SUPPLEMENT REPORT EXPECTED (14)

Yes (If yes, complete Expected Submission Date) |  No | EXPECTED SUBMISSION DATE (15) | 01 11 01 81 7

ABSTRACT (Limit to 1400 spaces, i.e., approximately fifteen single-space typewritten lines) (16)

On 11/21/85 at 1445 hours with the unit operating at 95% power, a National Fire Protection Association code compliance inspection of the fire suppression sprinkler system revealed a fusible sprinkler head missing from the Technical Specification 3.18 designated lower south cable penetration room. Alternate fire suppression was immediately established in the area and the smoke detectors for the area were verified to be operable. An engineering evaluation of the extent of degradation that the missing head posed demonstrated that the area was not completely protected from fire or combustion product spread. This evaluation was completed 12/9/85 at which time the event was determined to be reportable. The engineering evaluation also determined that the missing sprinkler head has not been in place since initial system installation. A pipe plug was found installed in place of the sprinkler head and from a visual evaluation of the plug it was determined that the plug was probably installed during the system hydrostatic test that was completed 9/18/72. During system restoration following the hydro, the deficiency was not corrected and subsequent system walkdowns failed to identify the missing sprinkler head due to it's location which is not easily visible from the floor level in the protected area. On 11/22/85 at 1600 hours, a fusible sprinkler head was installed in the location, and the fire system was returned to normal operation. A walkdown of fire suppression sprinkler systems has been initiated with completion anticipated on 6/18/86 for accessible systems outside reactor containment and 12/18/86 for those systems inside containment. There have been no similar occurrences.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)			PAGE (3)
		Year	Sequential	Revision	
			Number	Number	
Arkansas Nuclear One, Unit One					
TEXT (If more space is required, use additional NRC Form 366A's) (17)					

On 11/21/85 at 1445 hours with the unit operating at 95% power, a National Fire Protection Association code compliance inspection of the fire suppression sprinkler system revealed a fusible sprinkler head missing from the Technical Specification 3.18 designated lower south cable penetration room. In accordance with the technical specification the smoke detection equipment for the area was immediately determined to be operable and alternate fire suppression capability in the form of fire hoses were supplied to the area within the required one hour. The code compliance inspection was being conducted by Arkansas Power and Light personnel as part of a continuing effort to improve the fire protection program at Arkansas Nuclear One.

Upon notification of the fire system degradation, members of the facility engineering staff performed an evaluation of the extent of degradation that the missing head posed to the protected area. This evaluation was completed on 12/9/85, and it was determined that the area was not adequately protected from fire or combustion product spread. Based upon this evaluation the event was determined to be reportable since the evaluation also showed that this degradation had probably existed since the original system hydrostatic test which was completed 9/18/72. The duration of the degradation exceeds the time allowed in the limiting condition for operation contained in specification 3.18.

The basis for establishing the occurrence date stems from a visual observation of a pipe plug that was installed in place of the missing sprinkler head. The plug was of a type, and installed in a manner, that indicated that it was used to permit the sprinkler system to be hydrostatically tested during initial installation. During the system restoration that followed, the hydro plug was not removed and replaced with a sprinkler head, and subsequent system walkdowns failed to identify this missing sprinkler due to its location. The sprinkler is located in the overhead in a remote area of the protected area and is not easily visible from the floor level in the room.

On 11/22/85 at 1600 hours, a fusible sprinkler head was installed in the location, and the fire suppression system was returned to normal operation. An extensive walkdown of the fire suppression sprinkler systems at Arkansas Nuclear One has been scheduled with completion anticipated on 6/18/86 for accessible systems outside reactor containment and 12/18/86 for those systems inside containment. There have been no similar occurrences.



ARKANSAS POWER & LIGHT COMPANY

POST OFFICE BOX 551 LITTLE ROCK, ARKANSAS 72203 (501) 371-4000

January 9, 1986

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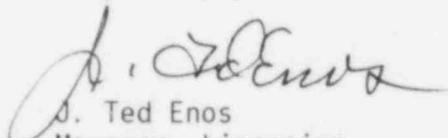
U. S. Nuclear Regulatory Commission  
Document Control Desk  
Washington, D.C. 20555

Subject: Arkansas Nuclear One - Unit 1  
Docket No. 50-313  
License No. DPR-51  
Licensee Event Report  
No. 85-012-00

Gentlemen:

In accordance with 10CFR50.73(a)(2)(i), attached is the subject report concerning a fusible sprinkler head missing from the Technical Specification 3.18 designated lower south cable penetration room.

Very truly yours,

  
J. Ted Enos  
Manager, Licensing

JTE:RJS:ds

Attachment

cc: Mr. James M. Taylor  
Office of Inspection and Enforcement  
U. S. Nuclear Regulatory Commission  
Washington, DC 20555

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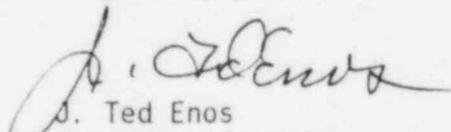
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11	21	85	85	01	01	01	11	01	91816	01510101

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<input checked="" type="checkbox"/> Yes (If yes, complete Expected Submission Date)   <input type="checkbox"/> No	01	11	01 81 7

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

FACILITY NAME (1) Arkansas Nuclear One, Unit One	DOCKET NUMBER (2) 1051010101313185	LER NUMBER (6)		PAGE (3) 0101210F1012
		Sequential	Revision	
		Year 01	Number 1	

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