

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1)
Davis-Besse Unit 1

DOCKET NUMBER (2)
0 5 0 0 0 3 4 1 6 1 OF 0 1 3

PAGE (3)
1 OF 0 1 3

TITLE (4)
Missed Fire Watch Due to Unidentified Inoperable Fire Detection

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)
0 4	0 6	8 8	8 8	0 1 0	0 0	0 5	0 6	8 8			0 5 0 0 0
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THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more of the following) (11)

OPERATING MODE (9) 5	20.402(b)	20.405(e)	50.73(a)(2)(iv)	73.71(b)
POWER LEVEL (10) 0 1 0 1 0	20.405(a)(1)(i)	50.38(a)(1)	50.73(a)(2)(v)	73.71(e)
	20.405(a)(1)(ii)	50.38(a)(2)	50.73(a)(2)(vi)	OTHER (Specify in Abstract below and in Text, NRC Form 306A)
	20.405(a)(1)(iii)	X 50.73(a)(2)(i)	50.73(a)(2)(viii)(A)	
	20.405(a)(1)(iv)	50.73(a)(2)(ii)	50.73(a)(2)(viii)(B)	
	20.405(a)(1)(v)	50.73(a)(2)(iii)	50.73(a)(2)(ix)	

LICENSEE CONTACT FOR THIS LER (12)

NAME
C. S. Gordon, Senior Nuclear Specialist, Technical Planning

TELEPHONE NUMBER
AREA CODE: 4 1 1 9 | 2 1 4 1 9 | - 1 5 1 0 1 0

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

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPDPS	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPDPS

SUPPLEMENTAL REPORT EXPECTED (14)

YES (If yes, complete EXPECTED SUBMISSION DATE) NO

EXPECTED SUBMISSION DATE (15)

MONTH	DAY	YEAR

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

On April 6, 1988 at approximately 0230 hours maintenance was in progress which isolated the sprinkler header above Main Feedwater Pump 1-2 and caused an alarm on fire alarm/annunciator panel C4105. This is a Non-Technical Specification fire alarm annunciator/panel. The Shift Supervisor was unaware of the alarm's significance. At approximately 1000 hours Fire Protection personnel noticed that fire alarm/annunciator panel C4105 was in an alarm condition. This effectively rendered the fire detection for the Turbine Building inoperable. This along with two inoperable fire barriers required a continuous fire watch at Fire Doors 423 and 327 in accordance with Technical Specification 3.7.10. The continuous watch was established at 1040 hours.

A procedure, DB-FP-00009, and a standing order have been revised to provide clearly stated guidance to the Shift Supervisor concerning implementation of compensatory measures.

This event is being reported in accordance with 10CFR50.73(a)(2)(i).

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER		
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TEXT (if more space is required, use additional NRC Form 366A's) (17)

Description of Occurrence:

On April 6, 1988 at approximately 0230 hours maintenance was in progress which isolated the sprinkler header above Main Feedwater Pump 1-2 and caused an alarm on fire alarm/annunciator panel C4105. This is a Non-Technical Specification fire alarm/annunciator panel and the Shift Supervisor did not recognize the alarm's significance.

At approximately 1000 hours, Fire Protection personnel noticed that fire alarm/annunciator panel C4105 was in an alarm condition in the control room. Subsequent investigation of the alarm revealed that maintenance under MWO 1-88-0858-00 was in progress to remove the sprinkler branch line above Main Feedwater Pump Turbine (MFPT) 1-2. This sprinkler system was isolated which caused the panel (C4105) to alarm. This effectively made the fire detection for the Turbine Building incapable of conveying an alarm to the Control Room. This condition was not understood by the shift personnel when the alarm occurred.

For this alarm/annunciator panel, the alarm circuits are arranged such that a valve tamper and/or low air supervisory trouble condition is conveyed to the Control Room as a fire alarm and until it is cleared, no further alarms from this panel can be received in the Control Room. With Technical Specification Fire Barriers 422 east/431 west and 329 east/334 west inoperable due to deficiencies in Fire Doors 423 and 327 and no operable detection on either side, a continuous watch is required by Technical Specification 3.7.10. The continuous fire watch was established at 1040 hours.

Designation of Apparent Cause of Occurrence:

This condition occurred because personnel failed to recognize that the detection required for the inoperable fire barriers would be made inoperable by the isolation of the sprinkler system for performing maintenance on the Main Feed Pump Turbine. Additionally shift personnel failed to recognize that with panel C4105 in an alarm condition no other alarms could be received from C4105 in the Control Room. Previous practices associated with Non-Technical Specification Fire Suppression/Detection Systems did not require evaluation of the effect on Technical Specification barriers.

Analysis of Occurrence:

Fire Doors 423 and 327 are located in a frequently traveled area and would be observed often providing early detection of a fire. Doors 423 and 327 are located in Vestibule Room 422 and 329, respectively. These areas contain minimal combustibles. Therefore, this event has no potential safety significance.

Corrective Action:

The continuous fire watch was established at 1040 hours for inoperable fire barriers 422E/431W and 329E/334W. Procedure, DB-FP-00009, has been issued and will be effective by May 9, 1988. This procedure provides the Shift Supervisor with guidance to assist him in determining the appropriate fire watch requirements and considers the effect of Non-Technical Specification fire detection on Technical Specification fire barriers.

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TEXT (If more space is required, use additional NRC Form 366A 3) (17)

Standing Order 88-047 has been revised to provide temporary guidance for implementation of compensatory measures for inoperable fire protection equipment.

Failure Data:

This is the fourth report of a missed continuous fire watch due to personnel error, LERs 87-005, 88-005 and 88-009. The corrective actions for LER 88-005 and 88-009 had not been fully implemented at the time of this occurrence.

REPORT NO: NP-33-88-10

PCAQ NO(s): 88-0288

May 6, 1988



Log No: KA88-0272
NP-33-88-10

Docket No. 50-346
License No. NPF-3

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

Gentlemen:

LER No. 88-010
Davis-Besse Nuclear Power Station Unit No. 1
Date of Occurrence April 6, 1988

Enclosed is Licensee Event Report 88-010, which is being submitted in accordance with 10CFR50.73 to provide 30 day written notification of the subject occurrence.

Yours truly,

A handwritten signature in cursive script that reads 'Louis F. Storz'.

Louis F. Storz
Plant Manager
Davis-Besse Nuclear Power Station

LFS/ed

cc: Mr. A. Bert Davis
Regional Administrator
USNRC Region III

Mr. Paul Byron
DB-1 NRC Resident Inspector

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