



EDISON PLAZA
300 MADISON AVENUE
TOLEDO, OHIO 43652-0001

June 18, 1990

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NP33-90-011

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

United States Nuclear Regulatory Commission
Document Control Desk
Washington, D. C. 20555

Gentlemen:

LER 90-010
Davis-Besse Nuclear Power Station, Unit No. 1
Date of Occurrence - May 18, 1990

Enclosed please find Licensee Event Report 90-010 which is being written to provide 30 days notification of the subject occurrence. This report is being submitted in accordance with 10CFR50.73(a)(2)(iv).

Yours truly,

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

LFS/plf

Enclosure

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

Mr. Paul Byron
DB-1 NRC Sr. Resident Inspector

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LICENSEE EVENT REPORT (LER)

FACILITY NAME (1)
Davis-Besse Unit No. 1

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

PAGE (3)
1 OF 0 1

TITLE (4)
Inadvertent Safety Features Actuation With Injection of 1,000 Gallons of Borated Water

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 NAME(S)		DOCKET NUMBER(S)
05	18	90	90	010	000	06	18	90			0 5 1 0 0 0
<p>THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 5: (Check one or more of the following) (11)</p>											

OPERATING MODE (9) 5	20.402(b)	20.403(a)	<input checked="" type="checkbox"/>	20.73(b)(2)(iv)	73.71(b)
POWER LEVEL (10) 0 0 0	20.403(a)(1)(ii)	20.403(a)(1)	<input type="checkbox"/>	20.73(a)(2)(iv)	73.71(c)
	20.403(a)(1)(iii)	20.403(a)(2)	<input type="checkbox"/>	20.73(b)(2)(v)	OTHER (Specify in Abstract below and in Text, NAL Form 388-C)
	20.403(a)(1)(iv)	20.73(a)(2)(i)	<input type="checkbox"/>	20.73(b)(2)(vi)(A)	
	20.403(a)(1)(v)	20.73(a)(2)(ii)	<input type="checkbox"/>	20.73(b)(2)(vi)(B)	
	20.403(a)(1)(vi)	20.73(a)(2)(iii)	<input type="checkbox"/>	20.73(b)(2)(vi)(C)	
	20.403(a)(1)(vii)	20.73(a)(2)(iii)	<input type="checkbox"/>	20.73(b)(2)(vi)	

LICENSEE CONTACT FOR THIS LER (12)

NAME: Jan C. Stotz, Engineer - Maintenance Planning

TELEPHONE NUMBER: AREA CODE 4 19 2 221 1 - 7 5 4 4

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

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRC	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRC

SUPPLEMENTAL REPORT EXPECTED (14)

YES (If yes, complete EXPECTED SUBMISSION DATE) NO

EXPECTED SUBMISSION DATE (15): MONTH 0 6 DAY 3 0 YEAR 9 0

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

On May 18, 1990, at 2121 hours, the Station experienced an inadvertent SFAS Level 1 through 4 actuation including the injection of 1,000 gallons of water from the Borated Water Storage Tank (BWST) into the reactor via Low Pressure Injection (LPI) Train 1-2. The plant was in Mode 5. At 2126 hours, the actuation was blocked. By 2129 hours, decay heat removal flow was re-established.

The cause of the actuation was the loss of 120VAC Bus Y3 which de-energized SFAS Channel 3 with SFAS Channel 1 High Containment Pressure module previously removed for maintenance.

Y3 de-energized unexpectedly while completing the prerequisites for DB-SC-04053, 4160 V System Transfer and Lockout Test-buses C1 and C2. The cause is related to the changing configuration of the 120 VAC instrument system due to an ongoing refueling outage modification, Modification 86-0272. The root cause is still under investigation and will be reported in a revision to this LER.

The NRC was notified via the ENS at 2250 hours per 10CFR50.72 of the ESP actuation. The injection of the water was classified an Unusual Event per the Emergency Plan and appropriate notification of local and state officials was also made.