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300 MADISON AVENUE
TOLEDO, OHIO 43652-0001

March 19, 1990

Log No.: BB90-00413
NP33-90-005

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

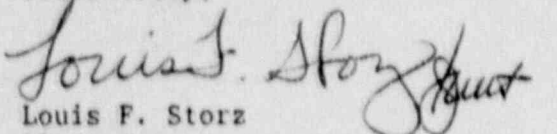
United States Nuclear Regulatory Commission
Document Control Desk
Washington, D. C. 20555

Gentlemen:

LER 90-004
Davis-Besse Nuclear Power Station, Unit No. 1
Date of Occurrence - February 17, 1990

Enclosed please find Licensee Event Report 90-004 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)(i).

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. 1DOCKET NUMBER (2)
0 5 0 0 0 3 4 6PAGE (3)
1 OF 013TITLE (4)
Fuel Assembly Moved in Spent Fuel Pool While Emergency Ventilation InoperableEVENT DATE (5)
MONTH DAY YEAR
0 2 1 7 9 0 9 0
LER NUMBER (6)
SEQUENTIAL NUMBER REVISION NUMBER
0 0 4 0 0 0
REPORT DATE (7)
MONTH DAY YEAR
0 3 1 9 9 0
OTHER FACILITIES INVOLVED (8)
FACILITY NAMES DOCKET NUMBER(S)
0 5 0 0 0 0THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR § (Check one or more of the following) (11)
OPERATING MODE (9) 6
POWER LEVEL (10) 0 0 0
20.402(b) 20.406(e) 60.73(a)(2)(iv) 73.71(b)
20.406(a)(1)(i) 60.36(e)(1) 60.73(a)(2)(v) 73.71(c)
20.406(a)(1)(ii) 60.36(e)(2) 60.73(a)(2)(vi) OTHER (Specify in Abstract below and in Text, NRC Form 366A)
20.406(a)(1)(iii) X 60.73(a)(2)(vii)(A) 60.73(a)(2)(viii)(B)
20.406(a)(1)(iv) 60.73(a)(2)(ii) 60.73(a)(2)(ix)
20.406(a)(1)(v) 60.73(a)(2)(iii)LICENSEE CONTACT FOR THIS LER (12)
NAME Jan C. Stotz, Engineer - Maintenance Planning
TELEPHONE NUMBER
AREA CODE 4 1 9 3 2 1 - 7 5 4 4COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)
CAUSE SYSTEM COMPONENT MANUFACTURER REPORTABLE TO NRC
CAUSE SYSTEM COMPONENT MANUFACTURER REPORTABLE TO NRCSUPPLEMENTAL REPORT EXPECTED (14)
YES (If yes, complete EXPECTED SUBMISSION DATE) X NO
EXPECTED SUBMISSION DATE (15) MONTH DAY YEAR

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

On February 17, 1990, at 0925 hours, a fuel assembly was moved in the Spent Fuel Pool (SFP) with the Emergency Ventilation System (EVS) servicing the SFP area considered inoperable. None of the fuel assemblies in the SFP at that time had been in the reactor within the previous 18 months. The SFP/EVS was considered inoperable because the Equipment Hatch was open and the Containment Purge Supply and Exhaust Fans were running. This event is a violation of Technical Specification 3.9.12, action statement "b", which prohibits the movement of fuel in the SFP when both trains of SFP/EVS are inoperable. The cause was personnel error by the assistant shift supervisor who granted permission for the move. The individual has been counseled. In addition, all licensed personnel will be advised of this event as part of their required reading of this LER.

This event is reportable under 10CFR50.73(a)(2)(i)(B) as a condition prohibited by Technical Specifications.

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO. 3150-0104

EXPIRES: 8/31/88

FACILITY NAME (1) Davis-Besse Unit No. 1	DOCKET NUMBER (2) 0 5 0 0 0 3 4 6 9 0 — 0 0 4 — 0 0	LER NUMBER (6)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
		0 0	0 0 4	0 0	0 2	OF	0 3

TEXT (If more space is required, use additional NRC Form 305A's) (17)

Description of Occurrence:

On February 17, 1990, a fuel assembly was moved in the Spent Fuel Pool (SFP) with the Emergency Ventilation System (EVS) servicing the SFP area considered inoperable. The Station was in Mode 6, Refueling, with the Equipment Hatch open and the Containment Purge Supply and Exhaust Fans operating. Technical Specification 3.9.12, action statement "b", prohibits the movement of fuel within the SFP when no trains of the SFP/EVS operable. The movement of the fuel under these conditions is a violation of the action statement.

This event is reportable under 10CFR50.73(a)(2)(i) as a condition prohibited by the Technical Specifications.

Apparent Cause of Occurrence:

The cause was personnel error by the assistant shift supervisor. The event is considered an isolated inappropriate action on his part by failing to exercise Senior Reactor Operator (SRO) oversight, specifically in granting permission to move a fuel assembly in the SFP contrary to the action statement of Technical Specification 3.9.12.

Analysis of Occurrence:

The SFP/EVS is statused as inoperable when the Equipment Hatch is open and the Containment Purge Supply and Exhaust Fans are running. This is because, in this configuration, if a fuel handling accident were to occur, some of the radiation released from the pool could migrate into Containment through the Equipment Hatch and trip the Safety Features Actuation System (SFAS) Containment Radiation Monitors. This would cause the EVS to realign dampers and begin drawing down the mechanical penetration rooms and the annulus rather than the SFP area.

On the day of this event, none of the fuel assemblies that were in the SFP had been in the reactor within the previous 18 months. Were a fuel handling accident to occur, there would not have been enough activity from the release in the pool to actuate the Containment radiation monitors. Therefore, EVS would have remained aligned to the SFP area. Its function would not have been impaired.

However, had a fuel handling accident occurred in the SFP shortly after defueling the reactor with the equipment hatch open and purge running, it is possible that the SFAS radiation monitors would have actuated and diverted EVS. Therefore, the SFP area would not have drawn down. This would have required operator actions to block and realign equipment before SFP/EVS could be re-established.

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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		9 0	0 0 4	0 0 0	3	OF 0 3

TEXT IF more space is required, use additional NRC Form 366A's (17)

Corrective Action:

The individual has been counseled on his responsibilities. All licensed personnel will receive this LER as part of their required reading.

Failure Data:

The previous report of an error by licensed personnel that caused a Technical Specification violation was LER 90-003. In that event, an SRO had N/A'd a step in a checklist resulting in an entry into the refueling mode without a required system operable. That event occurred February 12, 1990. The cause of the events were not related. The next previous report of an error by licensed personnel was in LER 89-001 in which a surveillance requirement was N/A'd in the mode checklist.

REPORT NO.: NP33-90-005PCAO NO.: 90-0113