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EDISON PLAZA 300 MADISON AVENUE TOLEDO, OHIO 43652-0001

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NP-33-95-002 AB-95-0035

Docket No. 50-346

License No. NPF-3

October 6, 1995

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

Gentlemen:

LER 95-002 Davis-Besse Nuclear Power Station, Unit No. 1 Date of Occurrence - September 6, 1995

Enclosed please find Licensee Event Report 95-002, which is being submitted to provide 30 days written notification of the subject occurrence. This LER is being submitted in accordance with 10 CFR 50.73(a)(2)(i)(B).

Very truly yours,

John K. Wood Plant Manager Davis-Besse Nuclear Power Station

JKW/eld

Enclosure

cc: Mr. H. J. Miller Regional Administrator USNRC Region III

130030

PDR

9510130263 951006 PDR ADDCK 05000346

Mr. Stan Stasek DB-1 NRC Sr. Resident Inspector

Utility Radiological Safety Board

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NRC FORM 366A

U.S. NUCLEAR REGULATORY COMMISSION

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

APPROVED BY OMB NO. 3150-0104 EXPIRES 5/31/95

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 50.0 HRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE INFORMATION AND RECORDS MANAGEMENT BRANCH (MNBB 7714), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 2055-0001, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0104), DFRICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.

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FACILITY NAME (1)		PAGE (3)				
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Davis-Besse Unit Number 1	05000 -540	95	- 002 -	00	02 07 04	

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

Description of Occurrence:

On September 6, 1995, with the plant in Mode 1 at approximately 100 percent power, troubleshooting of the reactor coolant extended range pressure string was in progress under Maintenance Work Order (MWO) 7-95-0748-01. The pressure string had failed low and it was determined that the cause of the failure was that one of the two Foxboro power supplies in Post Accident Monitoring System (PAMS-IP) Essential Metering Cabinet C3629 had failed. During replacement of the failed power supply it was discovered that the terminal strip which provides power to both Foxboro power supplies in cabinet C3629 was missing all six terminal post nuts. The leads for the power supplies were held onto the terminal strip posts by ring lugs only.

Equipment which is powered by the two Foxboro power supplies in cabinet C3629 includes Technical Specification (TS) related indicating instruments PI6365A, FYIDH2A, FYI HP03A and FYI HP03B. These instruments correspond to the following instruments which are included in TS Table 3.3-10, Post Accident Monitoring Instrumentation:

- RC Loop Pressure Loop 2 (1 channel)
- High Pressure Injection Flow Train 2 (2 channels)
- Low Pressure Injection (DHR) Flow Train 2 (1 channel)

In addition, one of the affected Foxboro power supplies provides power to TS related indicating instrument PI6365A1. This instrument corresponds to the Reactor Coolant System Pressure instrument included in TS Table 3.3-9, Remote Shutdown Monitoring Instrumentation (JL).

The missing terminal nuts were determined to constitute a nonconforming condition in that the qualification of the affected equipment could not be assured following a seismic event. Based on the guidance provided in Generic Letter 91-18 on nonconforming conditions and operability, the affected equipment was considered technically inoperable while this condition existed.

A review of maintenance performed in cabinet C3629 was conducted. Based on this review, the nonconforming condition appears to have existed for greater than the 30 days allowed for inoperable instrumentation by TS 3.3.3.6 and TS 3.3.3.5.1. Consequently, this condition is being reported as a condition prohibited by TS under the provisions of 10CFR50.73(a)(2)(i)(B).

NRC FORM 366A

U.S. NUCLEAR REGULATORY COMMISSION

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TEXT (If more space is required, use additional copies of NRC Form 365A) (17)

Apparent Cause of Occurrence:

The apparent cause of this condition is considered an isolated wiring error. Based on the review of maintenance performed in cabinet C3629, it appears likely that this condition may have existed since 1991 when work was performed on both Foxboro power supplies in cabinet C3629 under MWO 7-91-0308-02.

The terminal strip in question is located in the bottom of cabinet C3629 and is positioned underneath other equipment in the cabinet such that it is only visible from floor level. Consequently, discovery of this condition would not have been expected to occur during routine testing, maintenance, or inspections in cabinet C3629.

Analysis of Occurrence:

The affected equipment provides only indication functions with the exception of a Reactor Coolant System pressure input to Channel 2 of the Diverse Scram System (DSS). The DSS was installed to meet the requirements of 10CFR50.62 (the ATWS rule) and provides a diverse method of deenergizing control and safety rods in the event that the Reactor Protection System does not function as designed. However, the DSS is not required to function during or following a seismic event.

No other control functions of any plant equipment could have been affected by this condition. In the event of a seismic occurrence, plant operators could have used other indications or methods to determine high and low pressure injection flow, and reactor coolant pressure.

Monthly channel checks and eighteen month channel calibrations performed in accordance with TS 4.3.3.6 and TS 4.3.3.5.1 were satisfactorily completed for all the affected TS equipment for the entire duration that this condition is believed to have existed. The power supply lead ring lugs provided sufficient contact with the terminal posts to maintain electrical continuity in all plant conditions during this time period.

Based on the above, this condition is of minimal safety significance.

NRC FORM 366A

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U.S. NUCLEAR REGULATORY COMMISSION

APPROVED BY OMB NO. 3150-0104 EXPIRES 5/31/95

*LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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

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Corrective Actions:

When this condition was discovered, cabinet C3628 which contains similar indication instrumentation for Train/Loop 1 was immediately inspected. Terminal post nuts were found to be properly installed in this cabinet.

Potential Condition Adverse to Quality Report (PCAQR) 95-0749 was initiated on September 6, 1995, to document the missing terminal post nuts in cabinet C3629.

Terminal post nuts were installed on the terminal strip in cabinet C3629 on September 6, 1995. This work was accomplished under a continuation sheet for MWO 7-95-0748-01 and returned the affected instrumentation to operable status.

Based on the apparent cause of this condition being considered an isolated wiring error from the 1991 timeframe, no further corrective actions are deemed necessary at this time.

Failure Data:

No LERs in the previous three years have involved either wiring errors or nonconforming conditions related to seismic qualifications.

NP-33-95-002

PCAOR: 95-0749