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Description of Occurrence:

Since original plant start up, the cabinet doors on Cyberex class - 1 E equipment (Battery Chargers DBC1P, DBC2P, DBC1N, DBC2N; Inverters YV1, YV2, YV3, YV4; Rectifiers YRF1, YRF2, YRF3, YRF4; Distribution Panels Y1, Y2, Y3, Y4, D1P, D1N D2P and D2N) for Essential Instrument AC power channels 1-4 were not bolted closed as required for seismic qualification. As a result of this condititon, this equipment could have become inoperable during a seismic event.

This is reportable per 10 CFR50.73(2)(ii'(B) as a condition outside the design basis of the plant.

Designation of Apparent Cause of Occurrence:

The cause was that the bolting detail was missed during the development of the station procedures. Since the doors on these cabinets are hinged and latched, it was not obvious that the bolts were more than just original shipping bolts. It was not until recently when Cyberex was questioned that it was confirmed that the bolts had been installed during seismic qualification testing.

Analysis of Occurrence:

If a significant seismic event had occurred, these panels could have failed and resulted in a loss of 120 VAC instrument power. Each of the 120 VAC Distribution Panels Y1, Y2, Y3, and Y4 supplies one channel of the Safety Features Actuation System, SFAS, (JE), one channel of the Steam and Feedwater Rupture Control System, SFRCS, (JB), one channel of the Reactor Protection System, RPS, (JD), and one channel of the Anticipatory Reactor Trip System, ARTS. A loss of power trips these channels in a fail safe condition. Loss of an additional Disbribution Panel would cause an actuation of these safety systems which would include a reactor trip. The control and stabilization of the plant following a trip would become more complicated as more panels are lost.

Although possible, it is very unlikely that the doors on these panels would fail in such a way that would cause a loss of cabinet power. The failure and loss of all four essential distribution panels would be incredulous.

Corrective Action:

The cabinet doors on the inverters, battery chargers, and rectifiers will have the bolts installed. Plant maintenance procedures MP 1410.70 and MP 1410.71 will be revised to address bolting of the cabinet doors to maintain seismic qualifications. Because of the potential need for easy access to the 120 VAC Distribution Panels Y1, Y2, Y3 and Y4, TED Systems Engineering is investigating other means of meeting the seismic qualifications without having to bolt the doors. If no other practical means is found, these doors will be maintained boltcd. These changes will be completed prior to startup.

NRC Form 366A (9-63)	LICENSEE EVENT REPORT (LER) TEXT CONTINUATION								
FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)	PAGE (3)						
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Davis-Besse Unit	1 0 5 0 0 3 46	816 -01111 -010	0 3 OF 03						

Engineering has also performed a random check of other cabinet doors and has found the necessary closure devices installed.

Failure Data:

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This is the first report of cabinet door seismic concerns.

REPORT NO: NP-33-86-10

DVR NO(s): 86-043

March 27, 1986

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Log No. KA86-104 File: RR2 (NP-33-86-10)

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

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

Gentlemen:

LER No. 86-011 Davis-Besse Nuclear Power Station Unit 1 Date of Occurrence: February 28, 1986

Enclosed is Licensee Event Report 86-011 which is being submitted in accordance with 10CIR50.73, to provide 30 day written notification of the subject occurrence.

Yours truly,

Jeus 1

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

LFS/ed

Enclosure

cc: Mr. James G. Keppler Regional Administrator, USNRC Region III

> Mr. Paul Bryon DB-1 NRC Resident Inspector

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