

CONTROL BLOCK:

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 (PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

CON'T		REPORT SOURCE		DOCKET NUMBER		EVENT DATE		REPORT DATE	
01	01	L6	05	00-0346	70	62	17	98	070379

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

A review by the unit architect/engineer revealed that the impact points of eight main steam line seismic restraint locations could have deformed if a sufficient seismic event occurred. Since it is not yet known if the main steam lines would have been damaged by the design basis seismic loading, this report is being submitted in accordance with Technical Specification 6.9.1.8.i. There was no danger to the health and safety of the public or station personnel. The restraints do not affect normal unit operation. (NP-32-79-08)

SYSTEM CODE		CAUSE CODE		CAUSE SUBCODE		COMPONENT CODE		COMP SUBCODE		VALVE SUBCODE	
C	C	B		A		SUPPORT		B		Z	

LER/RP REPORT NUMBER		EVENT YEAR		SEQUENTIAL REPORT NO.		OCCURRENCE CODE		REPORT TYPE		REVISION NO.	
17		79		064		01		T		0	

ACTION TAKEN		FUTURE ACTION		EFFECT ON PLANT		SHUTDOWN METHOD		HOURS		ATTACHMENT SUBMITTED		NPRD-4 FORM SUB.		PRIME COMP. SUPPLIER		COMPONENT MANUFACTURER	
F		Z		Z		Z		0000		Y		N		A		B130	

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

The cause of the occurrence is a design deficiency in that the initial design detail did not require the placement of web reinforcing plates at the impact points of the eight seismic restraint locations involved. Installation of web reinforcing plates was completed under Facility Change Request 79-257 on June 25, 1979.

FACILITY STATUS		% POWER		OTHER STATUS		METHOD OF DISCOVERY		DISCOVERY DESCRIPTION	
G		000		NA		D		A/E Support & Snubber Analysis Review	

ACTIVITY RELEASED		CONTENT OF RELEASE		AMOUNT OF ACTIVITY		LOCATION OF RELEASE	
Z		Z		NA		NA	

PERSONNEL EXPOSURES		TYPE		DESCRIPTION	
000		Z		NA	

PERSONNEL INJURIES		DESCRIPTION	
000		NA	

LOSS OF OR DAMAGE TO FACILITY		DESCRIPTION	
Z		NA	

ISSUED		DESCRIPTION	
N		NA	

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TOLEDO EDISON COMPANY
DAVIS-BESSE NUCLEAR POWER STATION UNIT ONE
SUPPLEMENTAL INFORMATION FOR LER NP-32-79-08

DATE OF EVENT: June 21, 1979

FACILITY: Davis-Besse Unit 1

IDENTIFICATION OF OCCURRENCE: Main steam line seismic restraints design deficiency

Conditions Prior to Occurrence: The unit was in Mode 5, with Power (MWT) = 0, and Load (Gross MWE) = 0.

Description of Occurrence: A review of the snubber and seismic restraint design on main steam seismic restraints SR4 and SR7 performed by the architect/engineer, Bechtel Corporation, led to a question of the need for web reinforcing plates at the impact point on the seismic restraints. The original calculations were examined and found to indicate that overstressing of the restraint could occur at the impact point if a sufficient seismic event occurred. However, the requirement for reinforcing was not included in the restraint detail.

Further review of the stress at the impact point on 148 main steam line and main feed-water seismic restraints discovered that seismic restraints SR2 and SR6 also needed the reinforcing plates. Since seismic restraints SR4, SR7, SR2 and SR6 are located on both main steam lines, a total of eight seismic restraint locations were affected.

Although it was determined the impact points of these eight seismic restraint locations could have deformed, it has not yet been ascertained if main steam line damage could have been inflicted from a design basis earthquake loading. Since the potentiality existed that the performance of the main steam line restraints could be less conservative than assumed in the accident analysis, this report is being submitted in accordance with Technical Specification section 6.9.1.8.i.

Designation of Apparent Cause of Occurrence: The cause of this occurrence is a design deficiency in that the initial design detail did not require the placement of web reinforcing plates at the impact point on the eight affected seismic restraints. The restraints were initially designed by the architect/engineer of Davis-Besse Unit 1, Bechtel Corporation.

Analysis of Occurrence: There was no danger to the health and safety of the public or to station personnel. The seismic restraints are only required for protection from a seismic event and do not affect normal unit operation. The architect/engineer is in the process of performing an analysis to determine if any damage could have been inflicted on the main steam line if a seismic event had occurred.

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Corrective Action: The design calculations for 140 main steam and main feedwater seismic restraint locations were reviewed and found to be adequate. Web reinforcing plates were designed to reduce the stress and prevent deformation at the impact point for the eight deficient locations.

Facility Change Request 79-257 and the associated Maintenance Work Order MWO 79-257 were prepared to install web reinforcing plates on the eight deficient main steam line seismic restraint locations. Installation of these web reinforcing plates was completed on June 25, 1979.

Failure Data: There have been no previously reported similar occurrences.

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