

TOLEDO EDISON COMPANY
DAVIS-BESSE UNIT ONE NUCLEAR POWER STATION
SUPPLEMENTAL INFORMATION FOR LER NP-33-77-64

DATE OF EVENT: August 27, 1977

FACILITY: Davis-Besse Unit 1

IDENTIFICATION OF OCCURRENCE: Reactor Coolant Pump Motor 1-1-2 was declared inoperable on August 27, 1977.

Conditions Prior to Occurrence: The plant was in Mode 2, with Power (MWT) = 125 and Load (MWE) = 0.

Description of Occurrence: Reactor Coolant Pump Motor 1-1-2 tripped at 1740 hours on August 27, 1977, with instantaneous ground (50GS) and differential current relay (87m/A-B-C) targets indicating the fault. This placed the Station into the Action Statement of Technical Specification 3.4.1 since one of the two Reactor Coolant Pumps in the loop were not in operation.

Designation of Apparent Cause of Occurrence: Upon inspection of the Reactor Coolant Pump 1-1-2 motor terminal box, Station maintenance personnel discovered B&C phase surge capacitors to be damaged. It has been determined by Westinghouse the design of the capacitor base was insufficient for the application.

Analysis of Occurrence: There was no danger to the health and safety of the public or Station personnel. The thermal power was at a low value and the remaining three Reactor Coolant Pumps were supplying the required coolant flow.

Corrective Action: The high flux and the flux-delta-flux setpoints were reset for three pump operation as required by the Action Statement of Technical Specification 3.4.1. Station maintenance personnel replaced C-phase surge capacitors and re-installed B-phase surge capacitors after caulking the crack in the porcelain and opening in the seam with RTV silicone sealant.

At 0058 hours on August 31, 1977, Reactor Coolant Pump 1-1-2 was declared operable. This removed the station from Action Statement of Technical Specification 3.4.1.a.

On August 29, 1977, an inspection was made on the remaining reactor coolant pump motors. A defective capacitor was found in A phase for Reactor Coolant Pump 1-2-2. Station maintenance personnel replaced A phase surge capacitor with a new one. A Facility Change Request, 78-470, has been prepared which requests all the RCP motor capacitors be modified to the new mounting design recommended by Westinghouse.

Failure Data: No previous similar events have occurred.