



TOLEDO EDISON COMPANY  
DAVIS-BESSE NUCLEAR POWER STATION UNIT ONE  
SUPPLEMENTAL INFORMATION FOR LER NP-33-79-31

DATE OF EVENT: February 16, 1979

FACILITY: Davis-Besse Unit 1

IDENTIFICATION OF OCCURRENCE: The Absolute Position Indication (API) for Control Rod 9 of Group 5 was inoperable.

Conditions Prior to Occurrence: The unit was in Mode 1, with Power (MWT) = 2440, and Load (Gross MWE) = 805.

Description of Occurrence: At 2233 hours on February 15, 1979, an asymmetry alarm was received on all rods in Group 5. However, all rods indicated 100% withdrawn both on the absolute and relative position indications. At 2252 hours, the API for each rod in Group 5 was placed in BYPASS, as it appeared that the asymmetric rod fault circuitry for Group 5 was inoperable. At 0230 hours and 0630 hours on February 16, 1979, all rods in Group 5 were verified as being 100% withdrawn on the absolute position indication, the relative position indication, and the 100% zone reference indication. At 0730 hours on February 16, 1979, the Instrument and Control technicians found the API amplifier for Rod 9 of Group 5 to be inoperable. This placed the unit in Action Statement (a) of Technical Specification 3.1.3.3, which permits continued operation provided all relative position indication is operable.

Designation of Apparent Cause of Occurrence: Upon investigation, Instrument and Control technicians found that an integrated circuit chip in the API amplifier for Rod 9 of Group 5 had failed high. This caused the group average amplifier to go high and this in turn caused asymmetry alarms on all rods (Rod 9 looked high, and all other rods in Group 5 looked low). The failure of this component caused the API for Rod 9 of Group 5 to be inoperable.

Analysis of Occurrence: There was no danger to the health and safety of the public or to unit personnel. The control rod was actually aligned with the group, and the relative indication was operable. The control rod was operating properly.

Corrective Action: On February 16, 1979, the integrated circuit chip was replaced, returning operability to the API for Rod 9 of Group 5. At 0930 hours on February 16, 1979, all of Group 5 API amplifiers were returned to normal status, which removed the unit from Action Statement (a) of Technical Specification 3.1.3.3.

Failure Data: There have been no previous API failures caused by API amplifier failures.

LER #79-027