

TOLEDO EDISON COMPANY
DAVIS-BESSE NUCLEAR POWER STATION UNIT ONE
SUPPLEMENTAL INFORMATION FOR LER NP-33-79-96

DATE OF EVENT: July 20, 1979

FACILITY: Davis-Besse Unit 1

IDENTIFICATION OF OCCURRENCE: Both Containment Post-Accident Radiation Monitors RE 5029 and RE 5030 found not operating

Conditions Prior to Occurrence: The unit was in Mode 1, with Power (MWT) = 2744, and Load (Gross MWE) = 915

Description of Occurrence: On July 20, 1979 at 0815 hours, Radiation Monitor RE 5030 was discovered off during a routine shift check. This made the containment atmosphere radioactivity monitoring system inoperable since the redundant radiation monitor RE 5029 was also off, having been secured in the off position for standby use. RE 5030 and RE 5029 were immediately started which removed the unit from the Action Statement of Technical Specification 3.4.6.1. The Action Statement requires that with both gaseous and particulate monitoring systems inoperable, the unit must be in hot standby within six hours and be in cold shutdown within the following thirty hours. The pump had previously been reported operable at 0715 hours on July 20, 1979, and therefore, the maximum length of time the pump could have been inoperable was one hour.

Designation of Apparent Cause of Occurrence: The cause of the occurrence was the carbon vanes of the RE 5030 pump wearing sufficiently to result in the low flow setpoint to be reached. This causes the low flow motor interlock to de-energize the pump motor.

Analysis of Occurrence: There was no danger to the health and safety of the public or to station personnel. This system is not involved in monitoring releases to the environment. These monitors are intended to detect any Reactor Coolant System leak which would increase the gaseous and particulate radioactivity of containment atmosphere. There were no leaks during the hour that RE 5030 was off as there were no increases in the monitor levels when they were returned to service.

Corrective Action: Immediately upon discovery at 0815 hours on July 20, 1979, RE 5030 and RE 5029 were restarted which removed the unit from the Action Statement of Technical Specification 3.4.6.1. In performing ST 5032.01, Monthly Functional Test on RE 5030, the pumps bypass valve was adjusted to provide sufficient flowrate to successfully complete the test at 1010 hours on July 20, 1979. At 1045 hours on July 20, 1979, RE 5029 was also successfully tested under ST 5032.01. Operations personnel will now be operating both radiation monitors for immediate detection if either one stops operating.

Failure Data: Although there have been numerous failures of these radiation monitors, none were similar to this one.

LER #79-082

847 096
856 019

800 349