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TOLEDO EDISON COMPANY
DAVIS-BESSE NUCLEAR POWER STATION UNIT ONE
SUPPLEMENTAL INFORMATION FOR LER NP-32-83-01

DATE OF EVENT: March 3, 1983

FACILITY: Davis-Besse Unit 1

IDENTIFICATION OF OCCURRENCE: Current operating practice involving the Emergency Core Cooling System (ECCS) Room Coolers was less conservative than the assumptions in the Safety Analysis Report (SAR)

Conditions Prior to Occurrence: The unit was in Mode 1, with Power (MWT) = 2770 and Load (Gross MWE) = 915.

Description of Occurrence: On March 3, 1983, it was determined that the current operating practice involving the ECCS Room Coolers was less conservative than the assumptions in the SAR. Two room coolers are located in each ECCS Room (Rooms 105 and 115) and one room cooler is located in the Decay Heat Cooler Room 113. Due to service water leaks, the ECCS Room Cooler 1-1 in Room 115 and ECCS Room Cooler 1-4 in Room 105 had previously been isolated, leaving ECCS Room Coolers 1-2 in Room 115, 1-5 in Room 105, and 1-3 in Room 113 in service. On March 3, 1983, when a problem developed in the Decay Heat Room Cooler 1-3, an investigation was begun to determine the effect on plant operability with Decay Heat Room Cooler 1-3 out of service. It was determined at this time that the operating practice of utilizing one room cooler in each ECCS Room was possibly less conservative than the assumptions used in the Single Failure Analysis for the ECCS Room Cooling Units of the SAR (Table 9.4.6). Table 9.4.6 of the SAR states that if the cooling capacity in one room is reduced to 50 percent of design, the standby full capacity ECCS Room Cooling Units are available to maintain a suitable environment for essential equipment in the second ECCS Pump Room.

This occurrence is being reported per Technical Specification 6.9.1.8.f which requires prompt notification and a written followup report within two weeks for personnel errors or procedure inadequacy which prevents, or could prevent by itself, the fulfillments of the functional requirements of systems required to cope with accidents analyzed in the Safety Analysis Report.

Designation of Apparent Cause of Occurrence: The cause of this occurrence was the lack of procedural control to ensure the proper operating configurations of systems or equipment not addressed in Technical Specifications, but which are discussed in the SAR. Also contributing to this occurrence was a misinterpretation of the ECCS room cooler requirements as addressed in the SAR which has existed since September 15, 1981 when a similar occurrence was reported in Licensee Event Report NP-33-81-70 (81-057). At the time of this occurrence, the Response to Question 6.3.6 of the Question and Answer Section of the Final Safety Analysis Report (FSAR) was interpreted as requiring only one ECCS room cooler in service in each ECCS room.

Analysis of Occurrence: There was no danger to the health and safety of the public or station personnel. The ECC Room Coolers are designed to maintain a suitable environment for the electric motors of the high pressure injection pumps, low pressure injection/decay heat pumps, and the containment spray pumps, as well as other environmentally qualified equipment in the event of a Loss of Coolant Accident (LOCA). An analysis is presently being conducted by the architect/engineer to determine the highest service water temperature which would provide sufficient cooling in the event of a worst case LOCA with only one ECCS room cooler available.

Corrective Action: On March 3, 1983, ECCS Room Coolers 1-1 and 1-4 were valved into service.

The appropriate procedure modifications will be made to the Service Water Monthly Test, ST 5075.01, Service Water System Procedure, SP 1104.11, and the LOCA Emergency Procedure, EF 1202.06, to ensure that two ECCS room coolers in each ECCS Room are either operable or can be restored to operable status before ECCS equipment draws suction from the containment emergency sump following a LOCA. In addition, portions of the SAR are currently being distributed with station operating procedures for periodic review to ensure that the design assumptions contained in the SAR can be identified and integrated into the appropriate procedures.

Failure Data: A previous occurrence in which both ECCS Room Coolers in Room 115 were found out of service was reported in Licensee Event Report NP-33-81-70 (LER 81-057).

LER #83-012