

ATTACHMENT TO LER 82-041/03L-0
NORTHEAST NUCLEAR ENERGY COMPANY
MILLSTONE NUCLEAR POWER STATION - UNIT 2
FACILITY OPERATING LICENSE NUMBER DPR-65
DOCKET NO. 50-336

Cause Description and Corrective Actions

On 19 October 1982, CEA number 23 dropped fully into the core at approximately 1511 hours. Power was reduced to 68% of rated thermal power within 1 hour, in accordance to T.S.A.S. 3.1.3.1.e. Due to CEA number 23 being fully inserted the Azimuthal Power Tilt (T_q) exceeded 0.02, reaching a maximum value of 0.114. The Total Planar Radial Peaking Factor (F_{xyT}) and the Total Integrated Radial Peaking Factor (F_{rT}) were within the limits of Specifications 3.2.2 and 3.2.3, and the power tilt was corrected within 2 hours as per T.S.A.S. 3.2.4.a and 3.2.4.b. It was believed that the upper gripper power switch had failed, and the switch was replaced. The CEA was restored to within its alignment requirements at 1632 hours, 1.35 hours after it had dropped in.

Increasing power at a rate of 3% per hour, Unit 2 was operating at 95% of rated thermal power on 20 October 1982 at 1445 hours when CEA number 23 again dropped fully into the core. Power was reduced to <70% of rated thermal power within 1 hour, and the Azimuthal Power Tilt exceeded 0.02, reaching a maximum value of 0.114. All Technical Specifications as listed in the preceding paragraph were noted and complied with. A dip in voltage changed the state of the timer logic and de-energized the upper gripper power switch, causing the CEA to drop. The power supply, a Lambda Electronics Model LCD-A-22, was replaced and the CEA was restored to within its alignment requirements at 1617 hours, 1.53 hours after it had dropped in.