

OPERATIONAL SUMMARY
NOVEMBER, 1979

The unit shutdown which was initiated on October 25, 1979, when Reactor Coolant Pump (RCP) 2-2 tripped from a blown fuse, continued until 1811 hours on November 20, 1979, when the turbine-generator was synchronized. Below is a list of the major work items performed during the outage:

1. All four RCP seals were replaced.
2. A new expansion joint for 1-4-2 heater extraction was rewelded.
3. A design change to the Couch relays in the RCP starting interlock circuits was made. This initiated a similar change in sixteen safety related circuits.
4. NI-3 was pulled and a new detector was installed. A new section of cable between the containment penetration and the NI-1 pre-amp was installed.
5. Several pipe restraints were modified as a result of IE Bulletin 79-14 findings.

11/20/79 - 11/21/79 The unit returned on line at 1811 hours on November 20, 1979, and reactor power was increased to 81% of full power with generator gross load at 760 MWe on November 21, 1979.

11/22/79 Reactor Coolant System (RCS) flow indication was determined to be less than required by Technical Specification 3.2.5 at 0300 hours. Reactor power was decreased to 73% at which point RCS flow indication was back within allowable limits. At 0400 hours generator gross load was 684 MWe.

11/23/79 - 11/25/79 Reactor power was maintained at approximately 73% until 0620 hours on November 25, 1979, when RCS flow indication was again determined to be less than that required by Technical Specifications. Reactor power was decreased to 67% at which point the RCS flow indication was again back within tolerance. The cause of the low flow indication is still being investigated.

11/26/79 Reactor power was maintained at approximately 69% of full power. At 2145 hours on November 26, 1979, RCP 1-2 was manually tripped due to a lower motor bearing low oil level alarm.

11/27/79 - 11/28/79 The unit remained at approximately 68% of full power with generator gross load of 635 MWe until 0645 hours on November 28, 1979, when it was determined that the power range nuclear instrumentation (NIs) were reading slightly greater than 2% below the calculated heat balance. Reactor power was reduced to 50% to bring the NIs in tolerance and to run another heat balance to get the NIs in tolerance.

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11/29/79

Group 7, Rod 5 was declared inoperable at 0640 hours initiating a reduction in reactor power to approximately 42% and resetting the high flux trip setpoint to 54%.

11/30/79

Reactor power was reduced and the turbine-generator taken off line at 1910 hours to investigate the lower motor bearing oil level alarm on RCP 1-2; to fix Group 7, Rod 5 and Group 5, Rod 11 API.