

PRELIMINARY NOTIFICATION OF EVENT OR UNUSUAL OCCURRENCE--PNO-I-86-26

This preliminary notification constitutes EARLY notice of events of POSSIBLE safety or public interest significance. The information is as initially received without verification or evaluation, and is basically all that is known by the Region I staff on this date.

Facility: Boston Edison Company Licensee Emergency Classification:
Pilgrim Nuclear Power Station ___ Notification of Unusual Event
Plymouth, Massachusetts ___ Alert
DN 50-293 ___ Site Area Emergency
___ General Emergency
X Not Applicable

Subject: Plant Shutdown for more than 48 hours

At 1:00 p.m. on April 4, 1986, the licensee began a controlled shutdown in order to repair an oil leak in the hydraulic oil system that controls the valves on the main turbine. The leak was relatively small and was discovered earlier that morning. The licensee also planned to repair a leaking Residual Heat Removal (RHR) valve during the plant outage and possibly inspect the main turbine for evidence of turbine blade cracking. General Electric recently recommended the turbine inspection in response to the turbine failure and fire at Maanshan Unit I in Taiwan in 1985.

The main steam line isolation valves (MSIV) unexpectedly closed and caused the reactor to scram during the shutdown on April 4, due to a mechanical problem with the reactor mode switch. The outboard MSIV's could not be subsequently re-opened during the reactor cooldown, so the cooldown was controlled by directing steam to the High Pressure Coolant Injection system (HPCI). This is a normal cooldown sequence if the MSIV's are closed. The HPCI system was operated in the test mode and did not inject water into the reactor. The licensee is evaluating these problems.

The reactor may be restarted on April 9, 1986, at the scheduled completion of the RHR valve repairs. A main turbine inspection could extend the outage by as much as a week. The licensee plans to issue a press release if the outage is extended. The resident inspector is monitoring the licensee's corrective actions.

The Commonwealth of Massachusetts has been notified.

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