

Date: September 5, 2012

PRELIMINARY NOTIFICATION OF EVENT OR UNUSUAL OCCURRENCE -- PNO-I-12-006A

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

Exelon Generation Company, LLC
Three Mile Island Unit 1
Middletown, PA
Docket: 50-289
License: DPR-50

Licensee Emergency Classification

Notification of Unusual Event
 Alert
 Site Area Emergency
 General Emergency
 Not Applicable

SUBJECT: UPDATE - THREE MILE ISLAND (TMI) SHUTDOWN DUE TO REACTOR COOLANT SYSTEM LEAK

This Preliminary Notification updates information discussed in PNO-I-12-006, which described a plant shutdown on August 22, 2012 due to reactor coolant system (RCS) leakage.

The plant reached cold shutdown on August 23, 2012, and the source of RCS leakage was confirmed to be from micro-cracks in the alloy 600 diaphragm for the upper pressurizer heater bundle. This heater bundle was subsequently replaced with a bundle that contained a stainless steel, non-alloy 600 heater diaphragm. An NRC specialist inspector, who was deployed to the site, confirmed the source of the RCS leakage and monitored pressurizer heater replacement activities. The licensee subsequently conducted extent-of-condition inspections on the other two pressurizer heater bundles and no indications of leakage were identified. The inspectors determined that the licensee's post-installation and extent-of-condition inspections were acceptable.

Once all repair activities were completed, operators proceeded with reactor heatup and plant startup. No additional RCS leakage was observed. Reactor startup was commenced on September 3, 2012, and full power was achieved on September 5. The resident inspectors monitored licensee activities throughout the initial shutdown and subsequent startup.

This information has been reviewed with TMI plant management. This preliminary notification is issued for information only and no further update by the staff is planned.

ADAMS Accession Number: **ML12249A367**

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Three Mile Island Unit 1 Generating Station

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