

Date: August 23, 2012

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

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.

| <u>Facility</u> | <u>Licensee Emergency Classification</u> |
|--------------------------------|--------------------------------------------------------|
| Exelon Generation Company, LLC | <input type="checkbox"/> Notification of Unusual Event |
| Three Mile Island Unit 1 | <input type="checkbox"/> Alert |
| Middletown, PA | <input type="checkbox"/> Site Area Emergency |
| Docket: 50-289 | <input type="checkbox"/> General Emergency |
| License: DPR-50 | <input checked="" type="checkbox"/> Not Applicable |

SUBJECT: THREE MILE ISLAND SHUTDOWN DUE TO REACTOR COOLANT SYSTEM LEAK

On August 22, 2012, at 4:58 a.m., operators at Three Mile Island Unit 1 commenced a Technical Specification-required shutdown due to an indication of reactor coolant system leakage. Exelon reached this conclusion after reviewing remote video camera inspection results from inside the secondary shield wall within the reactor building. The video showed leakage from a pressurizer heater bundle which is both bolted and welded to the pressurizer housing. The leak rate at the time of the shutdown was stable at 0.17 gallons per minute (gpm).

During the power reduction, at 8:01 a.m., an automatic reactor trip occurred from 30 percent power. The cause was a failure of a secondary plant control relay which resulted in a feedwater transient. The emergency feedwater system actuated, as expected. All control rods fully inserted and decay heat was being removed through the normal heat removal process. All plant systems functioned normally following the trip except manual operation of the turbine bypass valves was required due to failure of the automatic control function. The unit is stable. There was no impact on public health and safety. Exelon is evaluating plans to repair the leak.

The senior resident inspector has been on site reviewing ongoing licensee actions and monitored the shutdown. The NRC will continue to evaluate the event, including repair activities.

The Commonwealth of Pennsylvania was informed of the event. The NRC Region I Public Affairs Office responded to media inquiries.

The information presented herein was discussed with Exelon and was current as 11:45 a.m., August 23, 2012.

ADAMS Accession Number: ML12236A345

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Licensee: Exelon Generation Company LLC

Three Mile Island Unit 1 Generating Station

DOCUMENT NAME: G:\DRP\PNs\PNO-I-12-006 - TMI RCS Leak and SD greater than 72 hours.docx

ADAMS ACCESSION NUMBER: **ML 12236A345**

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| X | SUNSI Review | <input checked="" type="checkbox"/> Non-Sensitive | | | | <input checked="" type="checkbox"/> Publicly Available |
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