

PRELIMINARY NOTIFICATION- REGION III

October 1, 2009

PRELIMINARY NOTIFICATION OF EVENT OR UNUSUAL OCCURRENCE -- PNO-III-09-009

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 III staff on this date.

<u>Facility</u>	<u>Licensee Emergency Classification</u>
Fermi 2	<input type="checkbox"/> Notification of Unusual Event
Detroit Edison Company	<input type="checkbox"/> Alert
Newport, Michigan	<input type="checkbox"/> Site Area Emergency
Docket: 50-341	<input type="checkbox"/> General Emergency
License: NPF-43	<input checked="" type="checkbox"/> Not Applicable

SUBJECT: FERMII 2 UNPLANNED SHUTDOWN FOR GREATER THAN 72 HOURS TO REPAIR HYDROGEN IN-LEAKAGE

DESCRIPTION:

At 11:09 a.m. EDT on September 30, 2009, the licensee shut the plant down in response to hydrogen gas in-leakage into the stator water cooling system from the main turbine generator. The plant had been operating at 100 percent power. All control rods were fully inserted, reactor water level was being maintained in the normal band using the reactor feedwater systems.

The licensee noticed an increase in hydrogen leakage from the main turbine generator into the stator cooling water system. The hydrogen in-leakage did not meet any criteria for shutdown; however, the licensee conservatively scrammed the reactor which tripped the main turbine generator to repair the in-leak. The in-leak did not result in any releases of hydrogen into the turbine building.

The plant is currently in Mode 4. The licensee is performing troubleshooting and evaluation. The duration of the shutdown is expected to exceed 72 hours.

Resident inspectors will continue to monitor the shutdown, repair, and restart activities.

The information presented herein has been discussed with the licensee and is current as of 12:31 p.m. CDT on October 1, 2009.

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