

June 27, 2005

PRELIMINARY NOTIFICATION OF EVENT OR UNUSUAL OCCURRENCE -- PNO-III-05-010

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.

**Facility**

Fermi 2  
Detroit Edison Co.  
Newport, MI  
Docket: 50-341  
License: NPF-43

**Licensee Emergency Classification**

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

SUBJECT: FORCED OUTAGE DUE TO REACTOR BUILDING CLOSED COOLING  
WATER SYSTEM LEAK IN THE DRYWELL

DESCRIPTION:

On June 25, 2005, at 7:56 p.m., the Fermi control room operators received a Reactor Building Closed Cooling Water Makeup Tank High Flow alarm followed by a Drywell Floor Sump Level Rate of Change High alarm at 7:58 p.m. Based on the concurrent alarms, the operators determined that reactor building closed cooling water (RBCCW) was leaking inside the drywell at about 41 gallons per minute. A confirmatory chemical analysis of the water in the drywell sump identified minimal concentrations of radionuclides and larger concentrations of a corrosion inhibitor, Tolytriacol, used in the RBCCW system. Consequently, the leak was not considered unidentified or reactor pressure boundary leakage. At 8:51 p.m., operators commenced a voluntary plant shutdown using general operating procedures to repair the leaking RBCCW system. Mode 3 was entered on June 26, 2005, at 2:37 a.m. when the mode switch was placed in shutdown. Operators isolated RBCCW, division 2, which stopped the leak. Mode 4 was entered 9:33 p.m. and a team entered the drywell at 9:38 p.m. The team identified an extruded gasket installed between the end bell and the cooler housing for drywell cooler number 4. This was the same gasket that had failed on January 24, 2005, causing an Alert classification for excessive unidentified leakage resulting in a forced outage (See Event 41353).

State and local officials were notified of the outage.

The licensee reported the decision to shut down to the NRC Operations Center at 8:52 p.m. on June 25, 2005. The information in this preliminary notification has been reviewed with licensee management. This information is current as of 12 p.m. EDT on June 27, 2005.

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