

PRELIMINARY NOTIFICATION

November 13, 2012

PRELIMINARY NOTIFICATION OF EVENT OR UNUSUAL OCCURRENCE - PNO-III-12-016

This preliminary notification constitutes EARLY notice of events of POSSIBLE safety or public interest significance. Some of the information may not yet be fully verified or evaluated and is basically all that is known by the Region III staff on this date.

**Facility**

Fermi Nuclear Power Plant, Unit 2  
Detroit Edison Company  
Monroe, MI  
Docket: 50-341

**Licensee Emergency Classification**

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

SUBJECT: UNPLANNED SHUTDOWN GREATER THAN 72 HOURS DUE TO HYDROGEN IN-LEAKAGE TO THE STATOR WATER COOLING SYSTEM

On November 7, 2012, at 9:21 a.m. EDT, while operating at 68% power, operators of the Unit 2 reactor at the Fermi Nuclear Power Plant manually scrammed the reactor in response to an increase of hydrogen gas in-leakage to the stator water cooling system from the main turbine generator. The stator water cooling system's function is to cool portions of the main generator. All control rods, except one, fully inserted and all plant systems responded normally to the scram. One control rod had to be manually inserted one notch (approximately six inches) by the operators.

On November 7, 2012, at 10:23 p.m. EDT, the licensee entered cold shutdown (Mode 4). The licensee is continuing to investigate the cause of the hydrogen in-leakage into the stator water cooling system and the control rod issue.

The NRC resident inspectors were onsite at the time and responded to the notification of the scram. The NRC resident inspectors continue to follow the hydrogen in-leakage and control rod issues closely.

This preliminary notification is issued for information only.

Region III received initial notification of this occurrence by a telephone call from the resident inspector's office (RIO) at approximately 9:30 a.m. EDT on November 7, 2012 (refer to Event Notification No. 48487).

The information herein has been discussed with the licensee, and is current as of 1:26 p.m. EDT on November 13, 2012.

ADAMS Accession Number: ML12318A384

CONTACT: J. Cameron  
(630) 829-9833  
Jamnes.Cameron@nrc.gov