

February 19, 2009

**PRELIMINARY NOTIFICATION OF EVENT OR UNUSUAL OCCURRENCE -- PNO-IV-09-002**

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 IV, Arlington, Texas, staff on this date.

<b><u>Facility</u></b> AmerenUE, Inc. Callaway Plant Fulton, Missouri 65251 Docket: 50-483 License: NPF-30	<b><u>Licensee Emergency Classification</u></b> <input checked="" type="checkbox"/> Notification of Unusual Event Alert Site Area Emergency General Emergency Not Applicable
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**SUBJECT: PLANT SHUTDOWN AND SUBSEQUENT DECLARATION OF UNUSUAL EVENT ASSOCIATED WITH MAIN GENERATOR HYDROGEN LEAKAGE**

**DESCRIPTION:**

On February 19, 2009, at 8:17 am CST, Callaway Plant was manually shutdown in response to the failure of a power supply to a channel of the Engineered Safety Features Actuation System. The cause of the failure is still under investigation. The resident inspector monitored the shutdown and troubleshooting activities.

Later that day at 10:21 am CST, the licensee declared an Unusual Event because of the presence of flammable gas in the Turbine Building. A plant worker identified an apparent hydrogen leak at the main generator end bearing. Subsequent sampling of the atmosphere in the area of the generator revealed the presence of hydrogen which led operators to declare the Unusual Event. The generator was not in operation because of the previous plant shutdown. Operators successfully purged the main generator of hydrogen to eliminate any hazard at 10:55 am CST. The Unusual Event was terminated at 11:15 am CST after confirmation that the hazard was no longer present and a review of the exit criteria as defined in plant procedures. The resident inspector was present and monitored the licensee's response to the events.

The plant is currently stable with decay heat removal via the steam dumps to the main condenser. The licensee has replaced the power supply which caused the shutdown and is evaluating the condition of the main generator end bearing. The licensee has informed state and local agencies of both events. A news release will be made by Ameren Corporate Communications.

The information presented herein has been discussed with the licensee and is current as of 1:00 PM CST.

**ADAMS ACCESSION NUMBER:** ML090500817

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