

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 staff on this date. EEN

Facility: Duane Arnold Nuclear Power Plant
Iowa Electric Light & Power Company
Cedar Rapids, IA

Licensee Emergency Classification:
 Notification of an Unusual Event
 Alert
 Site Area Emergency
 General Emergency
 Not Applicable

Docket No. 50-331

Subject: STARTUP TRANSFORMER TRIP AND PLANT TRIP

The licensee reported that the startup transformer water deluge system was actuated at about 0649, November 23, 1984. The fire pump annunciation was followed by a transformer trip and reactor trip. All systems responded normally to the reactor trip. A high phase 2 differential current annunciator was received at about the same time as the transformer trip. The Resident Inspector responded to the event and reported the deluge system had actuated but that there was no evidence of fire or damage to the transformer. The licensee is taking the unit to cold shutdown and the utility transformer specialists are at the site checking the transformer and reviewing the event.

The cause of the deluge system actuation is unknown at the present time. The plant essential loads were being supplied from the standby transformer and the nonessential loads were being supplied by the startup transformer. At the time of the trip only the nonessential loads were lost so the emergency diesel generators were not required to start. As a result of the loss of nonessential power, the Emergency Notification System phones were out of service and incoming phone service was limited.

On November 4, 1984, the auxiliary transformer experienced an explosion and fire caused by insulation breakdown and a turn to turn short in the C phase of the aluminum wound transformer. (See PNO-III-84-92 & 92A) During that shutdown the startup transformer was completely checked out and found to be satisfactory in all respects.

The licensee intends to keep the unit down until the cause of the event is known and the operability of the startup transformer is assured. Region III inspectors will be onsite to review the licensee's findings and corrective actions before the unit is restarted.

The State of Iowa will be notified.

This information is current as of 10:00 a.m. CST, November 23, 1984.

Contact: D. C. Boyd (FTS 388-5546) R. F. Warnick (FTS 388-5575) *RW*

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PDR I&E
PNO-III-84-102 PDR

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