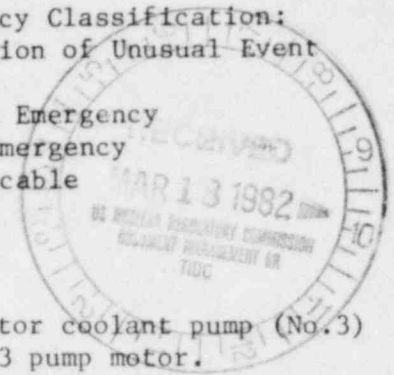


This preliminary notification constitutes EARLY notice of events of POSSIBLE safety or public interest significance. The information is as initially received without verification or evaluation, and is basically all that is known by the staff on this date.

Facility: Indiana & Michigan Power Co.  
D. C. Cook Unit 2  
Docket No. 50-316  
Bridgman, MI

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



Subject: UNPLANNED GASEOUS RELEASE AND OUTAGE GREATER THAN 48 HOURS

Unit 2 was shut down at 1:33 p.m. (EST) March 11, 1982 to repair a reactor coolant pump (No.3) seal leak and to investigate the cause of high temperatures in the No. 3 pump motor.

There was an unplanned gaseous release associated with the shutdown, apparently from leakage during the transfer of gases from the volume control tank to the waste gas storage system. The licensee is investigating the source of the leakage. The release through the auxiliary building ventilation stack, a monitored release path, totaled about 95 curies of noble gases over a 14 hour period beginning at 12:30 p.m., March 11. There were two brief spikes during the release which were measured at 40 per cent of the Technical Specification limit for instantaneous release levels, and the average for the 14 hour period was 3 per cent of the Technical Specification limit. There was no significant amount of radioiodine detected.

After the reactor was shut down, radioiodine levels in the reactor coolant system reached 1.75 microcuries per gram (Technical Specification limit 1 microcurie per gram) because of previously known fuel cladding leakage. The level was within the Technical Specification limit by 5 a.m. (EST) March 12, 1982.

The licensee has decided to perform additional maintenance and testing activities, originally planned for an outage beginning April 9. The unit is expected to be shut down for about two weeks.

The resident inspectors are following the licensee's investigation of the source of the unplanned release and will review the planned testing and maintenance activities.

News media interest is expected. The licensee plans to issue a news announcement, and Region III (Chicago) will respond to inquiries.

The State of Michigan is being notified.

Region III learned of the pending shutdown from the resident inspector about 10 a.m. (EST) March 11. The Headquarters Duty Officer was notified of the unplanned release at 7:52 p.m. (EST). This information is current as of 1 p.m. (EST) March 12, 1982.

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