

April 8, 2003

PRELIMINARY NOTIFICATION OF EVENT OR UNUSUAL OCCURRENCE -- PNO-IV-03-021

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 staff on this date.

**Facility**

Pacific Gas and Electric  
Diablo Canyon Unit 2  
Docket No.: 50-323  
License No.: NPR 82

**Licensee Emergency Classification**

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

SUBJECT: DIABLO CANYON UNIT 2 PLANT SHUTDOWN TO EXCEED 72 HOURS

DESCRIPTION: On April 4, 2003, with Unit 2 at approximately 54 percent power, the licensee commenced a shutdown to Mode 5 as required by Technical Specification 3.7.5.C.1, "Auxiliary Feedwater (AFW) System," because two trains of AFW were determined to be inoperable. The licensee had completed work activities on a check valve located in an AFW system line when workers identified that a second downstream check valve had been installed incorrectly. The licensee determined that the valve could potentially affect the ability of a motor-driven AFW and the turbine-driven AFW pump to discharge to one of the four steam generators.

The licensee removed the improperly installed check valve and replaced it with a check valve of a different design. The valve work was completed on April 7. A review of the as-found check valve disc placement inside the valve body revealed that both the motor-driven and turbine-driven AFW pumps would have been able to provide cooling flow to the steam generator, even though the disc was installed incorrectly. During the plant cooldown to Mode 5, the operators demonstrated that the AFW flow could pass flow through the check valve and utilized the AFW system to feed the affected steam generator.

The licensee reviewed AFW surveillance test data obtained prior to the plant shutdown to help assess the flow capability of the AFW system. Other secondary plant (nonsafety-related) work activities are also being conducted before the licensee returns the unit to power operation.

The state of California has been informed.

Region IV received notification of this occurrence on April 4, 2003, at approximately 8:30 p.m. CST, from the NRC senior resident inspector and the resident inspector who were reviewing the licensee's actions to address plant conditions related to the improperly installed check valve.

Region IV has informed the OEDO, NRR, and PAO.

This information has been discussed with the licensee and is current as of 8:30 a.m. PDT on April 8, 2003.

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