

Southern California Edison Company

SAN ONOFRE NUCLEAR GENERATING STATION  
P.O. BOX 128  
SAN CLEMENTE, CALIFORNIA 92672

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TELEPHONE  
(714) 492-7700

H. B. RAY  
STATION MANAGER

October 26, 1982

U.S. Nuclear Regulatory Commission  
Office of Inspection and Enforcement  
Region V  
1450 Maria Lane, Suite 210  
Walnut Creek, California 94596-5368

Attention: Mr. R. H. Engelken, Regional Administrator

Dear Sir:

Subject: Docket No. 50-206  
Informational Report, Power Operated Valve (POV)-6  
Licensee Event Report No. 82-024  
San Onofre Nuclear Generating Station, Unit 1

This report is submitted to provide information concerning the inadvertent operation of a POV in the Salt Water Cooling System (SWCS). The circumstances discussed in this letter do not represent a violation of the Unit 1 Technical Specifications, however, they are being reported since they involve a major component of the SWCS.

While making preparations to restore the South Salt Water Cooling Pump to service on August 13, 1982, its associated discharge valve (POV-6) opened unexpectedly when, as part of a planned sequence of events, air was supplied to its solenoid control valve. POV-6 was immediately shut by the operator standing by the valve without loss of salt water cooling. At the time, the plant was in Mode 5 and salt water cooling flow was being provided by the North Salt Water Cooling Pump.

When POV-6 was closed, a hydraulic transient occurred in the SWCS which caused a previously leaking weld on a vent line of the Lower Component Cooling Water Heat Exchanger (CCWHX) to fail. The Lower CCWHX remained in service until August 16, 1982, when the Upper CCWHX was placed in service.

An examination of the South Salt Water Cooling Pump and Motor was performed since the opening of POV-6 allowed salt water to enter the pump through its discharge side, causing the pump and motor shaft to rotate in the reverse direction. The examination revealed that the only damage caused by this occurrence was a broken shaft coupling locking screw. Appropriate repairs were completed and the South Salt Water Cooling Pump was returned to service on August 23, 1982.

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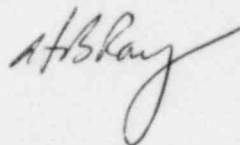
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1. An investigation of the POV and its solenoid control valve was conducted following the event. As a result, a document containing an explanation of the operation of the POV and its control solenoid as well as recommendations to prevent the inadvertent cycling of the POV was prepared. The information contained in this document will be incorporated into additional operator training on POV operation scheduled for completion by December 1, 1982.
2. An evaluation of SWCS POV's and associated solenoid valves has been requested which will include a determination as to whether improved valve operation can best be obtained through repair, replacement by valves of a different design, the installation of check valves, or combinations thereof.

There was no adverse effect on public health or safety as a result of this event. If you have any questions or if we can provide additional information, please let me know.

Sincerely,



Enclosure: LER 82-024

cc: L. F. Miller (USNRC Resident Inspector, San Onofre Unit 1)

U. S. Nuclear Regulatory Commission  
Office of Inspection and Enforcement

U. S. Nuclear Regulatory Commission  
Office of Management Information & Program Control

Institute of Nuclear Power Operations