

**LER 318/83-061**

Event Description: Transient with One LPSI Pump Inoperable

Date of Event: November 7, 1983

Plant: Calvert Cliffs 2

**Summary**

On November 7, 1983, during monthly surveillance testing of the engineered safety feature actuation system (ESFAS) logic, the 22 low-pressure safety injection (LPSI) pump could not be restarted after being stopped on a recirculation actuation signal (RAS). The trip mechanism on the pump breaker was out of adjustment, causing the breaker to trip free. A plant trip occurred on October 26, 1983, approximately 13 days prior to the discovery of the failed LPSI breaker.

This event was modeled as a transient with one LPSI residual heat removal (RHR) train failed. The estimated conditional core damage probability for this event is  $2.5 \times 10^{-6}$ . The dominant sequence was an anticipated transient without scram (ATWS) sequence with the failure of auxiliary feedwater (AFW). None of the highest-ranking sequences involved the modified branch probability, residual heat removal (RHR).