

SUPPLEMENTAL INFORMATION
FOR
LICENSEE EVENT REPORT 82-014

I. Cause Description and Analysis

On October 12, 1982, at 0914 hours, with the unit in steady state operation at 80% power, the Low Pressure Letdown Relief Line High Temperature Alarm was received on the control board. Investigation revealed that valve CVC-203 (Letdown Relief Valve) had lifted and had not completely resealed. The resulting primary system leakage was determined to be approximately 1.6 GPM.

No definite cause for the lifting of Relief Valve CVC-203 has been determined. However, a combination of system design and valve design problems is believed to be the root cause of this event. The failure of the valve to completely reseat was a result of seat damage caused by valve chatter during the lifting of the valve. This event resulted in an identified primary system leak in excess of 1 GPM as defined by Technical Specification 3.1.5.1 and is reported pursuant to 6.9.2.b.2. The leakage was routed to the Pressurizer Relief Tank via the Letdown Relief Line with only slight leakage to the Containment Vessel floor from the valve weep hole. This event did not result in a threat to the public health and safety because the leakage was contained and capability existed, throughout the event, to isolate the valve and bring the plant to hot shutdown.

II. Corrective Action

Upon identifying that CVC-203 was not completely seated, the letdown line pressure was reduced, and the valve was manually resealed reducing total reactor system leakage to approximately .6 GPM. The maximum leak rate during this event was 1.6 GPM.

With the primary system leakage within acceptable limits, plant operation continued until 2251 hours on October 22, 1982, when the unit was placed in hot shutdown to manually isolate CVC-203 for repairs. CVC-203 was repaired by replacing the entire valve internals with new components. Also, in an effort to identify some potential system problems which could have contributed to the lifting of CVC-203, PCV-145 (Letdown Pressure Control Valve) was inspected, and some minor adjustments were made. These adjustments were not of sufficient magnitude to have caused this event. The unit returned to power operation at 0459 hours on October 24, 1982, with CVC-203 and PCV-145 operating satisfactorily.

III. Corrective Action to Prevent Recurrence

As stated in a previous LER (LER-82-12) concerning CVC-203, investigation into the reliability of CVC-203 and efforts toward resolution are in progress. An engineering review of the CVCS Letdown System design and operation has also been initiated. Any additional actions resulting from these reviews will be reported as a supplement to LER-82-12.