

ABNORMAL OCCURRENCE REPORT

Report Number: 50-213/75-1
Report Date: 4-1-75
Occurrence Date: 3-26-75
Facility: Haddam Neck Plant
Identification of Occurrence: Reactor Coolant System Packing gland leak.
Conditions Prior to Occurrence: Steady State Power
Description of Occurrence:

Valves in the reactor coolant system, two (2) inches or greater in size, have a dual valve stem packing arrangement with a valve stem leak off system connected to the valve between the two sets of packing, to direct leakage from the inner packing gland to a drain collection tank via a cooler. At 0530 on March 26, 1975, a high temperature alarm was received at the outlet of the valve stem leakoff cooler. Total reactor coolant system leakage at 0800 was calculated to be 0.3 GPM. An investigation to find the cause of the alarm was initiated. At 1300 an alarm was received in the main control room for the volume control tank level "Rate of Change High" followed shortly by an alarm from the containment radiation monitoring system. An increase in the containment sump level was observed and at 1302 an orderly reactor plant shut down was commenced. At 1315 the leak rate to the reactor containment for 15 minutes indicated 4 GPM. This exceeds the allowable Technical Specification limits for reactor operation. A containment entry was made and revealed that the valve stem leak off line had been pressurized to the point of causing the valve stem leakoff system relief valve to lift and relieve the pressure to the containment sump. The plant and reactor was shut down, the system cooled down and depressurized to 385°F and 550 PSIG. LD-MOV-200 was repacked while in its back seat position. The plant was heated up and returned to power.

Designation of Apparent Cause of Occurrence:

The apparent cause of the above occurrence was determined to be a failure of the inner set of packing on the letdown isolation valve LD-MOV-200 allowing a reactor coolant system leakage in excess of that allowed by the station Technical Specifications for Reactor Operation.


Analysis of Occurrence:

All reactor coolant leakage was directed either to the normal collection tank or to the reactor containment. Both of which are designed to contain reactor coolant system leakage and since no radio-activity was released to the environment, we conclude that the public health and safety was not compromised as a result of this occurrence.

ABNORMAL OCCURRENCE REPORT - Haddam Neck Plant - 50-213/75-1

Corrective Action:

Both the inner and outer sets of packing on LD-MOV-200 were replaced with new packing. A containment inspection was conducted to check the other system valves for excessive leakoff and misadjustment. LD-MOV-200 operability was checked satisfactory.



Plant Superintendent