

Additional Cause Description and Corrective Action:

The crack was located in a drain line from the charging system downstream of the regenerative heat exchanger. The crack occurred in the weld area between the $\frac{1}{2}$ inch pipe nipple associated with drain valve 120E and the reducing elbow tapped from the three-inch charging line. The defective area was cut out, and the nipple was shortened and rewelded to the elbow socket. The new weld was examined by liquid penetrant techniques and the assembly was pressure tested and found to be acceptable for use. The cause of the crack could not positively be determined, however, it was most probably caused by stress due to line vibration. The drain assembly is approximately at Reactor Coolant System pressure during normal operation.

A plant change/modification will be implemented to change the design of vent and drain assemblies. The valves to be used in the new design are long lead procurement items (approximately 8 months.) Following receipt of materials, the modification will be implemented in the subsequently scheduled extended outage.

