



ATTACHMENT I

The Power Authority  
State of New York  
Indian Point 3

DOCKET 50-286

LER-78-014/03L-1

The plant was in cold shutdown condition for a scheduled refueling outage.

On July 3, 1978, during performance of Periodic Surveillance Test 3PT-M36, Steam Generator Blowdown Sample Isolation Valves 1223A, 1224A, 1225A and 1226A would not close on a high radiation signal. Valves 1223A, 1225A and 1226A could be closed manually.

These valves are required to be operable per Technical Specifications section 3.6.A.1 whenever the plant is not in a cold shutdown condition.

One valve is associated with each steam generator one-half inch sample isolation valve. The redundant series isolation valve in each line operated satisfactorily.

Subsequent investigation located a ground in the control switch for valve 1224A at the local sampling panel. This ground effectively tied the solenoids of the other three blowdown valves to ground.

A second ground on the DC Bus created a current path to maintain the solenoid in the energized condition even after normal power was interrupted due to the high radiation signal. This condition would have also prevented these valves from closing on a containment isolation signal.

The second ground was associated with the control circuitry of 32 boiler feedwater pump which is fed from the same DC distribution panel.

The grounds were cleared up and the valves retested satisfactorily. The remaining control switches were inspected for evidence of grounds and none were found.

Since the redundant valves operated properly, containment isolation would have been initiated if required.