



ATTACHMENT No. 1  
SURRY POWER STATION UNIT NO.  
DOCKET NO: 50-280  
REPORT NO: 80-045/03L-0  
EVENT DATE: 07-13-80

TITLE OF REPORT: UNSAMPLED BORON RECOVERY TEST TANK RELEASE

1. Description of Event:

During steady state operation of Surry Unit No. 1 at 100% power an operator discovered that the isolation valve (1-BR-236) for 1-BR-TK-2B was leaking through during the release of 1-BR-TK-2A, thereby causing an unsampled release from Tank B.

2. Probable Consequences/Status of Redundant Systems:

The release was evaluated and determined to be 0.012% of the Tech. Spec. Limits. Effective concentration in the discharge canal was so low that the radionuclides may be considered as not present per 10CFR 20. The flow path and flow rate were being monitored by the installed instrumentation. The system had the capability to stop the flow to the discharge canal header if the activity in the discharge line exceeded the set point for the radiation monitor. Therefore the health and safety of the public were not affected.

3. Cause of Event:

The cause is determined to be due to the leakage of the diaphragm valve.

Immediate Corrective Action:

Further release was terminated. A Maintenance Report was initiated to repair the valve.

5. Scheduled Corrective Action:

Repair the valve.

6. Action Taken to Prevent Recurrence:

Administrative controls have been established to insure sampling of both tanks prior to commencing any release.

7. Generic Implications.

A program for the routine inspection of the valves (MMP-C-V-001) is in effect. The diaphragms and other components that do not pass the inspection are being replaced. The diaphragms of the valve in question was replaced on May 12, 1980. The valve was found to be leaking on June 10, 1980. It was repaired on June 26, 1980, and it was determined to be a random event. Because of the current event maintenance requests have been initiated to inspect all (six) valves between the two tanks to determine Generic Implications.