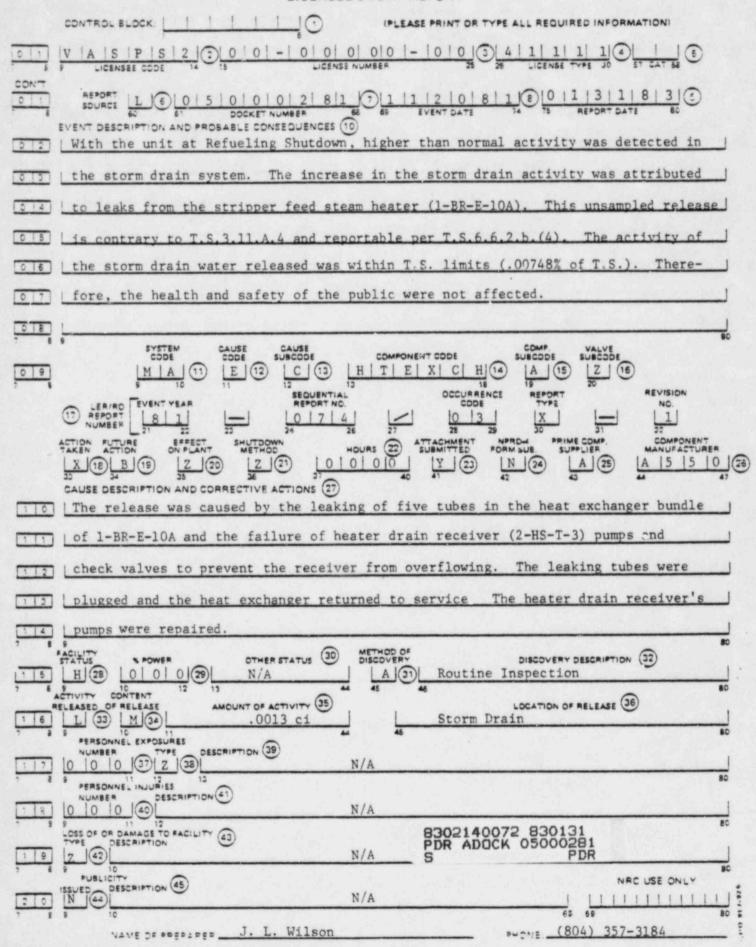
LICENSEE EVENT REPORT



UPDATE REPORT - PREVIOUS REPORT DATE 12-19-81

ATTACHMENT 1

SURRY POWER STATION, UNIT NO. 2

DOCKET NO:

50-281

REPORT NO:

81-074/03X-1

EVENT DATE:

11-20-81

TITLE OF THE EVENT: UNCONTROLLED RELEASE

1. Description of the Event

With the unit at Refueling Shutdown, higher than normal activity was detected in the storm drain. A plant inspection ensued and the increase in the storm drain activity was attributed to leaks from stripper feed steam heater 1-BR-E-10A. Leaks from heater 1-BR-E-10A drained into the auxiliary steam drain receiver where pumps, taking suction, discharged contaminants into the makeup water header.

Contaminants from the makeup header then filled the unit no. 2 safe-guards heating system drain receiver. The heating steam drain receiver overflowed, via the receiver's vent, into the storm drain system. This uncontrolled release is contrary to Tech. Spec. 3.11.A.4 and is reportable per Tech. Spec. 6.6.2.b.(4).

2. Probable Consequences and Status of Redundant Equipment

The activity of the water that entered the storm drain was within Technical Specification Limits (.00748% of T.S.). Therefore, the health and safety of the public were not affected.

3. Cause

The unplanned release was due to a leaking check valve for the sefeguards heating steam drain receiver pumps. In addition, the above drain receiver pumps were inoperable. (One due to a pump failure and one due to a planned electrical bus outage). The source of the radioactivity was a leaking stripper feed steam heater, 1-BR-E-10A.

4. Immediate Corrective Action

The immediate corrective action was to locate and isolate the source of inleakage to the storm drain. This was accomplished by isolating the heating drain receiver located (in Unit No. 2 Safeguards Building) from the discharge of the auxiliary steam drain receiver pumps.

5. Subsequent Corrective Action

The source of contamination leakage was identified as heat exchanger 1-BR-E-10A. The heat exchanger was isolated and the leaking tubes plugged. The heater drain receiver pumps were repaired.

6. Action Taken to Prevent Recurrence

An Engineering Study 82-52 to investigate the problem of contaminated leakage entering the auxiliary steam system has been completed. The study does not recommend any modifications to the heater drain receiver vent in Unit #2 Safeguards Building. However, Health Physics sampling of the

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auxiliary steam drain receiver 1AW PT-38.43 will continue to provide for detection of activity and recommendations for diverting the drains.

7. Generic Implications

None.