

(ATTACHMENT, PAGE 1 OF 1)
SURRY POWER STATION, UNIT 1
DOCKET NO: 50-280
REPORT NO: 80-002/03L-0
EVENT DATE: 01-06-80

TITLE OF EVENT: Flow Recorder (FR-LW-104A) Malfunction

1. DESCRIPTION OF EVENT

During a routine release of LWTT #80-95, the LW effluent flow recorder paper did not rotate. This is contrary to T.S. 3.11.A.5 and is reportable in accordance with T.S. 6.6.2.b.2. The drive gears disengaged from the recorder paper roll, causing the paper to remain stationary and thus no record of flow rate was obtained. However, information about the release such as: 1) initial LWTT volume; 2) final LWTT volume, and 3) time duration of release, was recorded on Health Physics Form HP 3-5-1.1, No. 80-95.

2. PROBABLE CONSEQUENCES AND STATUS OF REDUNDANT SYSTEMS

All other systems of the plant necessary for the safe release of the LW effluent operated properly. Only the flow rate recorder was involved in this event. Because the system was monitored by the operators, the health and safety of the public were not affected.

3. CAUSE

The recorder paper roll is driven by drive gears that mesh with perforations along the paper's edge. In order for the recorder to operate properly, the paper must be held taut against the roller and drive gears. During the event, the paper was not held taut, and, although the drive gears rotated properly, the paper was not advanced. Thus, no continuous record of flow rate was obtained.

4. IMMEDIATE CORRECTIVE ACTION

The tension on the paper was adjusted so that proper recorder operation was attained before beginning the next effluent release.

5. SCHEDULED CORRECTIVE ACTION

The operators were instructed to insure proper paper tension and a good mesh between the recorder gears and the paper perforations.

6. ACTION TAKEN TO PREVENT RECURRENCE

Operators are instructed to observe recorder operation before effluent release.

7. GENERIC IMPLICATIONS

This malfunction is considered random because no specific instrument or system has exhibited repeated failures. There are no generic implications.