

LICENSEE EVENT REPORT

CONTROL BLOCK: (PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

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012 During evaluation of volumes of contaminated drain tanks for increasing tankage available, an error was discovered in the volumes being used for these tanks. 014 This is non-conservative with respect to T.S.3.11.3 and is reportable per T.S.6.6.2.b(2). The health and safety of the public were not affected.

09 M A X Z Z Z Z Z Z Z Z Z Z X Z 17 8 0 0 1 9 0 3 X 1 18 Z 19 Z 20 Z 21 0 0 0 0 Y 23 N 24 Z 25 7 9 9 9 26

110 The volume of contaminated drain tanks between 0 and 100% level indication was erroneously labelled as 685 gallons instead of 750 gallons, during plant construction. Corrective action was taken to label the volumes correctly and to evaluate volumes of other tanks used in liquid waste release calculations.

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NRC USE ONLY

ATTACHMENT 1
SURRY POWER STATION, UNIT NO. 1
DOCKET NO: 50-280
REPORT NO: 80-019/03X-1
EVENT DATE: 03-04-80

TITLE OF THE EVENT: Liquid Waste Tanks (1-LW-TK-7A, 7B) Volume Computed Incorrectly

1. DESCRIPTION OF THE EVENT:

During evaluation of volumes of contaminated drain tanks (1-LW-TK-7A & 7B) to increase tankage available, an error was discovered in the volumes being used. Volume corresponding to 100% level indication was erroneously labelled as 685 gallons instead of 750 gallons during plant construction.

2. PROBABLE CONSEQUENCES and STATUS of REDUNDANT EQUIPMENT:

Contaminated drain tanks are part of Liquid Waste System. They collect contaminated water from sources such as emergency showers, laundry and contaminated drains. The activity present is usually too low to require processing prior to release. The tanks are sampled prior to release and the contents of release are continuously monitored during the release. The health and safety of the public were therefore not affected.

3. CAUSE OF THE EVENT:

The cause of the event is determined to be the use of incorrect volumes in the original procedures.

4. IMMEDIATE CORRECTIVE ACTION:

The volumes of 1-LW-TK-7A and 7B were labelled correctly. Other tank volumes used in liquid waste calculations were evaluated. Liquid Waste test tanks 1-LW-TK-11A and 11B were evaluated with satisfactory findings. Boron Recovery test tanks (1-BR-TK-2A & 2B) were evaluated. The volumes of these tanks were erroneously labelled as 27800 gallons instead of 28800 gallons corresponding to 100% tank level indication. These volumes were labelled correctly.

The volumes of low level waste drain tanks 1-LW-TK-3A & 3B were evaluated. They were found to be conservative.

5. SUBSEQUENT CORRECTIVE ACTION:

The Licensee Staff evaluated the effect of the errors in tank volumes on the previous releases based on December 1979 Liquid Waste Discharge Records. The values are considered to be conservative because of the large volumes of laundry waste that was being generated by the steam generator replacement project. The revised estimates show that the annual total activity released from contaminated drains transfer tanks and Boron Recovery Test tanks was approximately 1.63 curies instead of 1.55 curies as originally estimated. The revised estimated annual value for % Tech. Spec. is approximately 8.59E-1 instead of the original estimate 8.48 E-1, an error of 0.011%. Since the error is extremely small (0.011%), no further evaluation is deemed necessary.

6. ACTION TAKEN TO PREVENT RECURRENCE:

No further action is considered necessary.

7. GENERIC IMPLICATIONS:

None.