



LER SUPPLEMENTAL INFORMATION

SQRO-50-328/82010

Technical Specification Involved: 3.3.2 and 3.3.1

Reported Under Technical Specification: 6.9.1.13.b

Date of Occurrence: 01/09/82 Time of Occurrence: 2300 CST

Identification and Description of Occurrence:

The steam generator pressure transmitter 2-PT-1-20A was declared inoperable at 2300 CST on 01/09/82 due to freezing sense lines. Similar incidents occurred at 2020 CST on 01/10/82 for loop 1 steam generator pressure transmitter 2-PT-1-2A, and at 0325 CST on 01/11/82 for the refueling water storage tank level 2-LT-63-50 and at 0354 CST on 01/11/82 for loop 4 feedwater flow transmitter 2-FI-3-103B. The instruments were declared inoperable and appropriate action statements entered.

Conditions Prior to Occurrence:

Unit 2 in mode 2 at 3Z power, 547 degrees F, 2235 psig.

Apparent Cause of Occurrence:

In each event, the operator observed spurious high readings at the control room indicators. Emergency maintenance requests were initiated and it was found that the sense lines were freezing.

Analysis of Occurrence:

Upon investigation of each event, it was found that various factors contributed to the freezing of the sense lines. In some areas, the insulation did not extend fully to the process pipe from the branch connection and the insulation was not properly weatherized. In other areas, heat tracing was inadequate to prevent the lines from freezing.

Corrective Action:

Immediate: Upon each event discovery, the lines were thawed and measures taken to insulate and/or heat the problem areas. Instrument 2-PT-1-20A was returned to service at 0308 CST on 01/10/82. Instruments 2-PT-1-2A, 2-LT-63-50 and 2-FI-3-103B were returned to service at 0001 CST, 1141 CST, and 1342 CST, respectively, on 01/11/82.

Long Term: An analysis has been made by plant personnel, Engineering Design, and Thermo, Inc., personnel to determine, evaluate and resolve all known areas for potential sense line freezing in the future. This has been done for units 1 and 2 and the recommendations from this analysis will be carried out through the implementation of Design Change Request 999 and 1399.

Failure Data:

None.