Report Number:

78-64/03L

Report Date:

10/3/78

Occurrence Date:

9/12/78

Facility:

Salem Generating Station

Public Service Electric & Gas Company Hancocks Bridge, New Jersey 08038

IDENTIFICATION OF OCCURRENCE:

Pressurizer Pressure High Reactor Trip Above Technical Specification Limit.

CONDITIONS PRIOR TO OCCURRENCE:

Reactor Power 100%, Operational Mode 1

DESCRIPTION OF OCCURRENCE:

During a channel functional test of Pressurizer Pressure Channel 2, the reactor trip setpoint was found to be above the limit allowed by Technical Specifications. The channel was declared inoperable. At 1115 hours, the bistables were placed in the tripped condition. The Action Statement for Technical Specification 3.3.1.1, Table 3.3-1, Action Statement 6 was implemented. Performance Department commenced troubleshooting and repair of the channel. At 1415 hours, Pressurizer Pressure Protection Channel 2 was declared operable and the Action Statement was terminated. Pressure Protection Channels 1, 3 and 4 were operable during this incident.

DESIGNATION OF APPARENT CAUSE OF OCCURRENCE:

The cause of this occurrence was an unstable output from the comparator which provides input to the trip bistable.

ANALYSIS OF OCCURRENCE:

Action Statement 6 for Technical Specification 3.3:1.1, Table 3.3-1 states that with the number of operable channels one less than the total number of channels, startup and/or power operation may proceed provided the following conditions are satisfied: 1) the inoperable channel is placed in the tripped condition within 1 hour, 2) the minimum channels operable requirement is met; however, one additional channel may be bypassed for up to 2 hours for surveillance testing per specification 4.3.1.1.

The inoperable channel was placed in the tripped condition within the l hour time limit and all redundant channels were operable during the entire occurrence.

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CORRECTIVE ACTION:

The unstable comparator was replaced with a unit from spares. The spare was bench tested satisfactorily prior to installation. The channel functional test was completed and showed the channel to be operating properly. The failed comparator will be followed on Deficiency Report No. PD-0607.

FAILURE DATA:

Comparator Model 118

Manufacturer: Westinghouse Electric Corporation

Hagan Controls Division

Prepared by A. W. Kapple	// Sepidence
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