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PLANT AND SYSTEM IDENTIFICATION

TEXT (If more space a required, use additional NAC.Porm 306A's) (17)

General Electric - Boiling Water Reactor (BWR/4) Reactor Water Cleanup (RWCU) System (EIIS Designator CE)

IDENTIFICATION OF OCCURRENCE

Inadvertent Isolation of Reactor Water Cleanup System Event Date: 11/11/86 Event Time: 1950 This LER was initiated by Incident Report No. 86-249.

CONDITIONS PRIOR TO OCCURRENCE

Plant in OPERATIONAL CONDITION 1 with a Reactor power of 95% and a unit load of 1070 MWe. 'A' Reactor Water Cleanup (RWCU) filter demineralizer being backwashed.

DESCRIPTION OF OCCURRENCE

On November 11, 1986, chemistry technicians completed backwashing and precoating 'A' RWCU filter demineralizer and were placing 'B' RWCU filter demineralizer in service when initiation of the RWCU steam leak isolation timer occurred. Forty five (45) seconds later the outboard RWCU isolation valve closed causing both RWCU pumps to trip. The isolation was reset and both RWCU pumps returned to service. However, at 2015 there was a similar recurrence.

APPARENT CAUSE OF OCCURRENCE

The event is attributed to existing leakage within the RWCU system which hampered chemistry technicians in placing a filter demineralizer in service.

ANALYSIS OF OCCURRENCE

The RWCU utilizes differential flow instrumentation to compare flow rates within the various system pathways providing a means of determining if gross leakage out of the system has occurred. Upon high differential flow being sensed, valves are closed to isolate the system from the reactor. Prior to the event, RWCU system leakage totalled, approximately 34 gpm which, due to density difference, resulted in an indicated differential flow error of 50 gpm.

The system isolates, as referred to above, at 56.3 gpm after 45 seconds. During the event, the 6.3 gpm flow margin was insufficient, to allow Chemistry Technicians to place the 'B' filter-demineralizer in service.

LICENSEE EVENT REP	LICENSEE EVENT REPORT (LER) TEXT CONTINUATION								
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ANALYSIS OF OCCURRENCE

Thus, the system isolated on high differential flow. The public health and safety was not compromised by this event. This LER is being submitted pursuant to 10CFR50.73(a)(2)(iv).

CORRECTIVE ACTION

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Corrective maintenance on the leaking flow element and regenerative heat exchanger has been completed. An investigation is in progress by GE to determine how to provide automatic density compensation to eliminate a portion of the existing flow error electronically.

Sincerely,

R.S. SALVESEN /gan

R. S. Salvesen General Manager -Hope Creek Operations

PM:dyp SORC Mtg. 86-319



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Public Service Electric and Gas Company P.O. Box L. Hancocks Bridge, New Jersey 08038

Hope Creek Operations

December 10, 1986

U.S. Nuclear Regulatory Commission Document Control Desk Washington, DC 20555

Dear Sir:

HOPE CREEK GENERATING STATION DOCKET NO. 50-354 UNIT NO. 1 LICENSEE EVENT REPORT 86-078

This Licensee Event Report is being submitted pursuant to the requirements of 10CFR50.73(a)(2)(iv).

Sincerely yours,

R.S. Salvesen Jar

R. S. Salvesen General Manager -Hope Creek Operations

RGB:dyp

SORC Mtg. 86-319 Attachment

C Distribution



The Energy People