NRC Form 366 (9-83)		LIC	ENSEE EVER	NT REF	PORT	(LER)	U.S. NUI AJ E2	CLEAR REGULATO	DRY COMMISSION					
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Noncoinc	cident Scra	m Sign	al Resul	ting	From	n Neutro	n Monit	oring S	ystem					
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NAME			LICENSEE CONTACT	FOR THIS	LER (12)			TELEPHONE NUM	939					
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FAR REGULATORY COMMISSION

TEXT If more spece is required, use additional NRC Form 386A's/ (17)

PLANT AND SYSTEM IDENTIFICATION:

General Electric - Boiling Water Reactor (BWR/4) Reactor Protection System (RPS)/Neutron Monitoring System (NMS)

IDENTIFICATION OF OCCURRENCE:

Noncoincident Scram Signal Resulting From Neutron Monitoring System Component Failure Event Date: Ø4/16/86 Event Time: Ø249 This LER was initiated by Incident Report No. 86-Ø38.

CONDITIONS PRIOR TO OCCURRENCE:

OPERATIONAL CONDITION 5 - activities relative to initial fuel loading in progress - 20 fuel bundles located in core - RPS circuitry "shorting links" removed - neutron flux level equal to 30 cps - all control rods fully inserted.

DESCRIPTION OF OCCURRENCE:

While in OPERATIONAL CONDITION 5 with initial fuel loading activities in progress, a noncoincident scram signal was initiated from the "B" RPS trip system as a result of a Neutron Flux Upscale trip signal generated by Channel "F" APRM. LPRM 4c-32-25, assigned to Channel "F" APRM, failed high thus generating the invalid APRM-Neutron Flux Upscale trip signal. This noncoincident scram condition required no control rod movement as all control rods were already fully inserted into the core.

APPARENT CAUSE OF OCCURRENCE:

NMS component failure; LPRM 4c-32-25 failed high.

ANALYSIS OF OCCURRENCE:

The twentieth fuel bundle had been loaded into core position 17-42 approximately one minute prior to event initiation. It has been concluded that fuel loading did not contribute to event initiation because the failed LPRM was not located in the quadrant of the core which fuel was being loaded. Troubleshooting activities later revealed a faulty Gain Switch on the LPRM Auxiliary Card (GE Part No. 136B2503AAG1) to be the "root" cause of the event. The failure of this NMS component has been determined to be NPRDS reportable. Because the RPS circuitry "shorting links" were not installed at the time of the event, the scram condition is categorized as

IS A LICENSEE EVENT	LIGENSEE EVENT REPORT (LER) TEXT CONTINUATION										AR REG	GULATORY COMMISSION OMR NO. 3150-0104 31/85									
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ANALYSIS OF OCCURRENCE (CONT'D):

noncoincident. Removal of the RPS circuitry "shorting links" during initial core loading is required by the plant technical specifications. The public health and safety was <u>not</u> compromised by this event. This LER is being submitted pursuant to lØCFR50.73(a)(2)(iv).

CORRECTIVE ACTION:

The immediate corrective action consisted of bypassing LPRM 4c-32-25 and resetting the noncoincident scram condition. The followup corrective action consisted of replacing the LPRM Auxiliary Card. Card replacement and calibration activities were performed under Work Order No. 86-04-18-030-3.

Sincerely,

Rasher

R. S. Salvesen General Manager Hope Creek Operations

CWA:bar SORC Mtg. 86-104



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

Hope Creek Generating Station

May 9, 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 86-004-00

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

Sincerely yours,

alveren

R. S. Salvesen General Manager Hope Creek Operations

KMH:bar

SORC Mtg. 86-104 Attachment

C Discribution



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