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REPORT SOURCE

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60	61	DOCKET NUMBER					68	69	EVENT DATE					74	75	REPORT DATE					80			

0 2 At 1115 hours, November 12, 1983, during a reactor startup, Intermediate Range Channel

0 3 N35 high flux bistable trip did not occur when power reached 25%. The redundant

0 4 channel operated satisfactorily. Channel N35 was declared inoperable and Technical

0 5 Specification Action Statement 3.3.1.1 Action 3 was entered. The startup continued in

0 6 accordance with the action requirement and no undue risk to the health or safety of the

0 7 public was therefore involved. The instrument setting was less conservative than

0 8 established by the Tech. Specs. and the event is reportable in accordance with

7 8 Tech. Spec. 6.9.1.9a.

09		I A		11	B		12	A		13	I N S T R U						14	X		15	Z		16			
SYSTEM CODE		CAUSE CODE			CAUSE SUBCODE			COMP. SUBCODE							VALVE SUBCODE											
17		EVENT YEAR		21	22		23		24		25		26		27		28		29		30		31		32	
LF & RD REPORT NUMBER																										
ACTION TAKEN		FUTURE ACTION		EFFECT ON PLANT		SHUTDOWN METHOD		HOURS		22		ATTACHMENT SUBMITTED		NPRD-4 FORM SUB.		PRIME COMP. SUPPLIER		COMPONENT MANUFACTURER								
E		Z		Z		Z		0		0		Y		Y		A		W		1		2		0		
33		34		35		36		37		40		41		42		43		44		47						

1 0 Channel N35 high flux bistable setpoint had drifted out of calibration. The channel

1 1 was recalibrated and Action Statement 3.3.1.1 Action 3 was terminated at 1830 hours,

1 2 November 12, 1983.

1 3

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7 8 0 80

FACILITY STATUS		% POWER		OTHER STATUS		METHOD OF DISCOVERY		DISCOVERY DESCRIPTION	
1	5	C	28	0	2	5	29	C	31
ACTIVITY		CONTENT		AMOUNT OF ACTIVITY		LOCATION OF RELEASE			
1	6	Z	33	Z	34	N/A		N/A	
PERSONNEL EXPOSURES		NUMBER		TYPE		DESCRIPTION			
1	7	0	0	0	37	Z	38	N/A	
PERSONNEL INJURIES		NUMBER		DESCRIPTION					
1	8	0	0	0	40	N/A			
LOSS OF OR DAMAGE TO FACILITY		TYPE		DESCRIPTION					
1	9	Z	42	N/A					
PUBLICITY		ISSUED		DESCRIPTION					
2	0	N	44	N/A					

PHONE: (609) 339-4309



PSEG

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

Salem Generating Station

December 2, 1983

Dr. Thomas E. Murley
Regional Administrator
USNRC
Region 1
631 Park Avenue
King of Prussia, Pennsylvania 19406

Dear Dr. Murley:

LICENSE NO. DPR-70
DOCKET NO. 50-272
REPORTABLE OCCURRENCE 83-054/03L

Pursuant to the requirements of Salem Generating Station Unit No. 1, Technical Specifications, Section 6.9.1.9a, we are submitting Licensee Event Report for Reportable Occurrence 83-054/03L. This report is required within thirty (30) days of the occurrence.

Sincerely yours,

J. M. Zupko, Jr.
General Manager -
Salem Operations

JR:k11

CC: Distribution

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Report Number: 83-054/03L
Report Date: 12-02-83
Occurrence Date: 11-12-83
Facility: Salem Generating Station Unit 1
Public Service Electric & Gas Company
Hancock's Bridge, New Jersey 08038

IDENTIFICATION OF OCCURRENCE:

Reactor Trip System Instrumentation - Intermediate Range Channel N-35
High Flux Setpoint - Out-Of-Calibration

This report was initiated by Incident Report 83-203

CONDITIONS PRIOR TO OCCURRENCE:

Mode 1 - Rx Power 25 % - Unit Load 285 MWe

DESCRIPTION OF OCCURRENCE:

At 1115 hours, November 12, 1983, during a reactor startup following a maintenance shutdown, it was observed that when indicated reactor power reached twenty-five (25) percent, that the Intermediate Range Channel N-35 High Flux bistable did not trip as required. The trip occurred at thirty-four (34) percent; allowable range is twenty-five to thirty percent (25%-30%). The high flux trip for the redundant Intermediate Range Channel N-36 was observed to function properly. Channel N-35 was declared inoperable and Technical Specification Action Statement 3.3.1.1 Action #3 was entered.

APPARENT CAUSE OF OCCURRENCE:

Investigation revealed that Intermediate Range Channel N-35 High Flux bistable setpoint had drifted out of calibration. No other functions or setpoints associated with Intermediate Range Channel N-35 was affected.

ANALYSIS OF OCCURRENCE:

The intermediate range nuclear flux trip provides reactor core protection during reactor startup. This trip provides redundant protection to the low setpoint trip of the power range neutron flux channels. The intermediate range channels will initiate a reactor trip at a current level proportional to approximately twenty-five (25) percent of rated thermal power unless manually blocked when P-10 becomes active. No credit is taken for the operation of this trip in the accident analyses; however, its functional capability at the specified trip setting is required by the technical specifications to enhance the overall reliability of the Reactor Protection System.

ANALYSIS OF OCCURRENCE: (cont'd)

Technical Specification Action Statement 3.3.1.1 Action #3 states:

With the number of channels operable one less than required by the technical specifications and with the thermal power level above five (5) percent of rated thermal power, power operation may continue.

The redundant channel remained operable throughout the occurrence and the inoperable channel was restored to an operable status in a timely fashion. The technical specifications allowed operation at power to continue and the event did not prevent the fulfillment of the functional requirements of the affected system. No undue risk to the health or safety of the public was therefore involved in this event. Since a Reactor Protection System instrument setting was found to be less conservative than those established by the technical specifications, the occurrence is reportable in accordance with Technical Specification 6.9.1.9a.

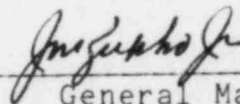
CORRECTIVE ACTION:

A functional check was performed on Intermediate Range Channel N-35 and the high flux bistable setpoint was adjusted within specification tolerances. The setpoints of the bistables for the other functions associated with this channel were also checked; these setpoints were within specifications. Channel N-35 was returned to service and Technical Specification Action Statement 3.3.1.1 Action #3 was terminated at 1830 hours, November 12, 1983. Due to the isolated nature of the occurrence, no other action was deemed necessary.

FAILURE DATA:

Westinghouse Corp.
Nuclear Services Div.
Nuclear Instrumentation
Intermediate Range - High Flux Trip B/S

Prepared By J. Rupp



General Manager -
Salem Operations

SORC Meeting No. 83-147