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Abstract: On March 12 Mode at 0 to support technician reactor sc: operators of motor-gene performance feed cause resulted in	8, 1986, percent surveil s, the R ram sign were tra rator (M e of a s d a mome n de-ene level b	at 083 power, lance f eactor al. Th nsferri /G) to urveill ntary p rgizati ypass p h SDV h	while o tests by Protect his scra ing the the alt lance te power lo ion of t relays.	pera ins ion "A' erna st. ss t. he S Los	tors trum Syst gnal RPS te p Swi o th cram s of	were a ent and em (RPS occurr bus pow ower su tching e 2A RP Discha power	ligning contro) init: ed whi: er supp pply (1 to the S logic to the to the	g equipm ol iated a le the ply from E-124) f alterna c which lume (SI se relay	full full the or ite (V)
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Unit Conditions Prior to the Event

Unit 2 was in Cold Shutdown at 0 percent power.

Description of the Event:

On March 18, 1986, with unit in Shutdown Mode, while operators were aligning equipment to support surveillance testing on "Calibration Check of the 2A RPS M/G Set Relay" (ST 2.25.25A) by the instrument and control technicians, the Reactor Protection System (RPS) initiated a full reactor scram signal.

As the operator was transferring RPS bus feeds from M/G set to alternate feed for ST 2.25.25A, there was a momentary loss of power to the RPS 2A logic. Prior to this transfer, the Scram Discharge Volume (SDV) high water level trip signal was bypassed. This was accomplished by placing the switch in the "bypass" position. By design, power must be available to both the 'A' and 'B' RPS logic relays to enable the SDV bypass feature to function.

At the time of scram, the water level of the SDV was "HIGH" and at the moment the transfer was made to the alternate feed, the bypass relays for the RPS 'A' logic were de-energized eliminating the bypass of the SDV high water level scram signal. No control rod movement occurred because all rods were fully inserted.

The EIIS code for this system is JC.

LICENSEE	SEE EVENT REPORT (LER) TEXT CONTINUATION APPROVED ONE NO. 3150-4 EXPIRES \$/31.05										
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Consequences of the Event:

There were no adverse consequences as a result of this event. The potential for generating a scram signal as described in this LER exists only when the mode switch is in the shutdown or refuel positions.

Cause of the Event:

The cause of the event was a momentary power loss to the 'A' RPS logic due to the transfer from the M/G set to the alternate power supply combined with SDV high water level. Concurrent with this power loss, the SDV high water level trip signal bypass was in the "bypass" position and the reactor mode switch was in shutdown. A continuous power supply is required to the 'A' and 'B' RPS logics for this bypass to remain functional. When power was lost to the 'A' RPS logic, the bypass was disabled and a reactor scram signal resulted due to SDV high water level.

The SDV water level was high due to a scram from the previous day and was not drained because of a report of high radiation levels in the water. In order to continue with the alignment of equipment to support surveillance tests, the operator continued with the transfer to the alternate power supply realizing that a scram signal would result.

Corrective Actions:

Power was restored to the 'A' RPS logic and the scram signal reset.

NRC form 366A 19-831	LICENSEE EVENT	REPORT (LER) TEXT CONTIN	UATIO	N		U.S. P	APPROVED EXPIRES 8	-	NO. 311			
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Actions Taken to Prevent Recurrence:

Caution signs have been installed at the location of the alternate feed transfer switches to warn operators that operation of these transfer switches with SDV high water level trip in "bypass" mode combined with SDV high water level will result in a full scram signal.

Previous Similar Occurrences:

LER 2-86-04

PHILADELPHIA ELECTRIC COMPANY

2301 MARKET STREET

P.O. BOX 8699

PHILADELPHIA, PA. 19101

(215) 841-4000

April 16, 1986

Docket No. 50-277

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

> SUBJECT: Licensee Event Report Peach Bottom Atomic Power Station - Unit 2

This LER concerns a full scram signal due to loss of power to 'A' RPS logic while Scram Discharge Volume level was high with the reactor shutdown.

Reference:	Docket No. 50-277
Report Number:	2-86-09
Revision Number:	00
Event Date:	March 18, 1986
Report Date:	April 16, 1986
Facility:	Peach Bottom Atomic Power Station RD 1, Box 208, Delta, PA 17314

This LER is being submitted pursuant to the requirements of 10 CFR 50.73(a)(2)(iv).

Very truly yours,

G. M. Leitch Superintendent Nuclear Generation Division

cc: Dr. Thomas E. Murley, Administrator, Region I, USNRC T. P. Johnson, NRC Resident Inspector