

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO. 3150-0104

EXPIRES 8/31/85

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		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
LaSalle County Station Unit 1	0 5 0 0 0 3 7 3 8 5	—	0 0 2	—	0 0	0 2	OF 0 3

TEXT (If more space is required, use additional NRC Form 388A's) (17)

I. EVENT DESCRIPTION

On January 5, 1985, at 1314, Unit 1 Condensate (SD) Pumps 1B and 1D auto tripped (2 of the 3 running pumps). The loss of these pumps resulted in a low water level condition in the Unit 1 reactor vessel. Before the water level reached 12.5 inches the Unit 1 NSO manually scrambled the reactor in anticipation of the low water level scram (JM). When level reached -44 inches (referenced to instrument zero), the HPCS 1B diesel generator (BG, EK) auto-started, and the High Pressure Core Spray system (BG) initiated, injecting spray into the vessel. This event isolated (JM) Reactor Water Cleanup (CE), and produced a turbine trip (TA) on reverse power (JJ). Reactor Recirculation (AD) pumps downshifted to slow speed, vessel pressure dipped to 820 psig and later came back to 920 psig. No SRV (AD) actuation occurred.

II. CAUSE

The following events preceded the scram, and attributed to the scram. The Standby Heat Exchanger, in the Stator Cooling (TJ) system, was being placed into service. When the flow path was established through the Standby Heat Exchanger, high conductivity water was placed into the system. (This was water that has been in this isolated heat exchanger for a long time.) A high conductivity and generator ground alarm was received on the Stator Cooling system. The high conductivity water resulted in a generator (TB) exciter trouble alarm (generator field ground). Steps were then taken by procedure to reduce load and take the generator off-line. In the process of transferring Bus 151 from its normal feed [Unit Aux Transformer (EL)], the Operator opened up the normal feed to Bus 152 by mistake. This resulted in an auto-trip of condensate pumps 1CD01PB and 1CD01PD. The loss of these pumps resulted in a rapid drop in vessel level. When vessel level started dropping the NSO manually scrambled the unit.

When vessel level reached -44 inches, the 1B diesel generator auto-started, and the High Pressure Core Spray system initiated. The Reactor Water Cleanup system isolated on high differential flow due to the event. Reactor pressure dropped to 820 psig and came back to 920 psig. No SRV actuations were noted; reactor recirculation pumps down-shifted; and the turbine tripped on reverse power. The 1A RR pump also tripped due to an ATWS signal.

After vessel level turned around and was back to a normal range HPCS was secured and the "A" TDRFP was used to control level. An attempt was made to trip the "B" TDRFP with no results. The pump flow was lowered. (The "B" feedwater trip problem was found to be a sticky solenoid.)

All level 2 actions did not occur due to the starting of HPCS at a conservative level and refilling of the reactor vessel.

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III. PROBABLE CONSEQUENCES OF THE OCCURRENCE

All components reacted as required during this event. HPCS initiated at a conservative level, and reactor recirculation pumps downshifted as required. The generator was not damaged by the event. The accumulated cycles on the HPCS nozzle is 5 cycles and the nozzle usage factor is less than 0.70.

IV. CORRECTIVE ACTION

The Operator involved with switching the UAT, SAT bus was counseled on having better observations during switching operations. The Operating Department will also be trained on this event. (AIR 01-85-67009) The possibility of rearranging the control switches on the auxiliary electrical power panel is being investigated (AIR 01-85-67010) along with a procedure to deal with generator Stator Cooling system high conductivity, specifically. (AIR 01-85-67011)

V. PREVIOUS OCCURRENCES

No previous occurrences, trips due to operating the wrong breakers, have been recorded.

VI. NAME AND PHONE NUMBER OF PREPARER

R. D. Koenig, 815/357-6761, extension 575.



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January 29, 1985

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

Dear Sir:

Reportable Occurrence Report #85-002-00, Docket #050-373 is being submitted to your office in accordance with 10CFR 50.73.

for R.D. Bishop
G. J. Diederich
Superintendent
LaSalle County Station

GJD/MLD/kg

Enclosure

xc: NRC, Regional Director
INPO-Records Center
File/NRC

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