Indian Point 3 Nuclear Power Plant P.O. Box 215 Buchanan, New York 10511 914 739.8200



January 21, 1991 IP3-91-011

Docket No. 50-286 License No. DPR-64

Document Control Desk Mail Station PI-137 U.S. Nuclear Regulatory Commission Washington, D.C. 20555

Dear Sir:

The attached Licensee Event Report LER 91-003-00 is hereby submitted in accordance with the requirements of 10CFR50.73. This event is of the type defined in the requirements per 10CFR50.73(a)(2)(iv).

Very truly yours,

and

Joseph Russell Resident Manager Indian Point Three Nuclear Power Plant

VC/rj` Attachment

cc:

Mr. Thomas T. Martin Regional Administrator Region 1 U.S. Nuclear Regulatory Commission 475 Allendale Road King of Prussia, Pennsylvania 19406

INPO Records Center Suite 1500 1100 Circle 75 Parkway Atlanta, Georgia 30339

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BSTRACT (Limit to 1400 spaces, i.e., approximately fifteen

On December 27, 1990, with the reactor at 48 percent power, a manual unit trip was initiated because control room operators observed all circulating water pumps had tripped off. Plant systems functioned properly following the trip, with the exception of 32 reactor coolant pump, which tripped during 6.9KV transfer from onsite to offsite power. The cause of the loss of circulating water pumps was a fault in a non-safety-related transformer. Following repairs, the unit was returned to service on December 28, 1990.

NRC Form 366 (9-83)

LICENSEE EVENT		

U.S. NUCLEAR REGULATORY COMMISSION

EXPIRES 8/31/88

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TEXT (If more space is required, use additional NRC Form 366A's) (17)

NRC Form 366A (9-83)

NRC FORM 366A (9-83)

DESCRIPTION OF THE EVENT

On December 27, 1990 at approximately 1111 hours, control room operators heard a loud noise followed by several category alarms on the supervisory panels. Control room operators reviewed all panels and observed that the six condenser circulating water pumps (G080) (KE) (P) had tripped. The Senior Reactor Operator directed the Reactor Operator to manually trip the reactor. All systems functioned normally with the exception of number 32 reactor coolant pump (Westinghouse Model 93) (W120) (AB) (P) which tripped during the 6.9KV transfer from the onsite to the offsite power source.

INVESTIGATION OF THE EVENT

The reactor trip was a manual trip initiated at the direction of the Senior Reactor Operator. This trip was initiated because control room operators noted the loss of circulating water pumps which provide cooling water to the condensers. The loss of circulating water occurred when the excitation fields to the circulating water pumps' synchronous motors were lost.

This loss of excitation fields is attributed to a non-safetyrelated transformer fault. Station service transformer 312 (SST-312), located in the plant turbine building, developed a fault on its primary side.

The loss of power on bus section 312 immediately resulted in the loss of excitation power to three circulating water pump motors. A few milliseconds later, voltage to a motor control center (MCC) that supplies the excitation fields to the remaining three circulating water motors dropped low enough to cause these circulators to trip.

During the 6.9KV bus transfer, 32 reactor coolant pump tripped as a result of an overcurrent relay actuation (Westinghouse) (W120)(67). The Technical Services Department investigated and determined the trip to be spurious.

Plant personnel inspected the station service transformer SST-312 and found severe damage to the primary side, B phase connection.

NRC Form 386A (9-83)	LICENSEE EVENT RE	PORT (LER) TEXT CONTINU							
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CAUSE OF THE EVENT

The cause of this event was a fault on the primary side of the station service transformer 312.

CORRECTIVE ACTIONS

Bus section 312 was megger-checked and re-energized via a tie breaker 312-313.

ANALYSIS OF THE EVENT

This event is reportable under 10CFR50.73(a)(2)(iv). This event has been considered under the guidelines of the plant's FSAR and Technical Specifications. A turbine trip/reactor trip is an analyzed event in Chapter 14 of the FSAR.

SECURING FROM THE EVENT

*U.S. GPO: 1988-520-589,00070

Station service transformer 313 was placed in service following extensive testing on December 28, 1990. The plant returned to service at approximately 1130 hours on December 28, 1990.

NRC FORM 366A