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	Joseph C. Barlok, Se COMPLETE ONE LINE MANUFAC REPORTA				k Coni	or To	et D	naina	or			AR	A CODE							
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	On	June veilla	30, 19	986, wit	th India	an Po wo Re	int 2 fueli	ng Wa	eter S	Stora	ge '	Fank	r, a leve	rou						
	sho out 0.5 of red rep	wed the side of th	hat the the lo t resp nd eva from e the Ba	LIC-921 ne low 1 pow level poctivel pluation every re- erton Mo alth and	level a setpo ly. The of te of teline odel 28	larm int m e tra st re g out 8 wit	setpo argir nsmit sults age t h a m	ters the o a n ore a	fcr t cifica were surve monthl	the i reca eilla ly in ate F	hsti by libi nce terv	rumer 0.52 rated inte val.	nts w 24 fe d. A erval We	ere ec is a wa pla	and resu s n to	lt				

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443)		ORT (LER) TEXT CONTIN	UATION	APPROVED DWS NO EXPIRES BISINS				
		DOCKET NUMBER 21	LER NUMBER IS	PAGE (3				
Inc	dian Point Unit 2			ALVISION	TT			
		0 5 0 0 0 2 4	7 8 6 - 0 2 :	- 9001	ZOFO			
	Plant and System Identifica	tion:						
	Westinghouse 4-loop Pressur							
	Identification of Occurrence							
	During surveillance test PC Level," the low level alarm Tank (RWST) level channels	setpoints for both	Refueling Wat	er Storage				
	Event Date: June 30, 1986							
	Reference: Significant Occ	urrence Report (SOR	86-227					
	Past Similar Occurrence: L	ER-80-015, LER-86-03	11					
	Description of Occurrence:							
	On June 30, 1986, with India calibration (PC-Q2) of the instrumentation was conduct that the low level alarm set the maximum specified level LT-920 (bistable LC-920B) we of 9.9 feet by 0.59 feet. returned to service. The a combined error in the composite level measurement and in the alarm point is set to give injection phase of safety is recirculation phase. LIC-9 Model NELIGMHIAL-B.	Refueling Water Stor ed. The results of tpoint for level tra- setting of 10.56 fe as below the minimum The level instrument s-found alarm setpor ments of the transmi- e components that put the operator ample of njection for a design	rage Tank (RWS the calibrati ansmitter LIC- eet by 0.524 f m specified le ts were recali ints are based itters systems rovide the ala warning to swi gn basis LOCA	T) level on showed 921 was ab eet and vel setting brated and on the that prov. rm. The tch from t to the	ove g ide he			
	Analysis of Occurrence:							
	This condition is being report contributing cause to the at Point 2 Technical Specifiat alarm to be operable and set of water in the tank. This	s-found condition of ion 3.3.A.l.k require t to alarm between S	f both instrum res the RWST 1 92,800 and 99,	ents. Ind ow level 000 gallon	ian s			

+431														PROVED D	CULATORY COMMISSIO			
		DOCKET NUMBER (2)					T			NUR				PAGE (2)				
Indian Poir	nt Unit 2	- 1.							-	-1						TT		
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Under hypothetical design LOCA conditions, switchover to cold leg recirculation takes place approximately 20 minutes into the event. During this time, conflicting RWST level alarms would be resolved through the diverse means of local indication and increasing containment water level. During the calibration performed on June 30, 1986 the local indication and Control Room indication were found within allowable instrument tolerance.

When cold leg recirculation is accomplished, containment spray would be continued in the injection mode until the RWST is emptied, thereby injecting into the containment an additional 80,000 gallons for long term pH control. With a slightly accelerated switchover, somewhat more than 80,000 gallons would be left for continued containment spray injection after switchover to recirculation. The redundant containment and recirculation sump level indicators provide verification that the refueling water storage tank water has been delivered during the injection phase. With a slightly delayed switchover (i.e., a late low-level alarm) somewhat less than 80,000 gallons would be left for continued containment spray injection after switchover to recirculation. During recirculation, a sump pH of 8.5 to 10 is desirable and our emergency operating procedures (EOPs) call for pH verification and adjustment, as necessary. The post accident sampling system (PASS) would be used to obtain required samples for pH verification (the PASS was not impacted by this condition). If pH adjustment is required, the EOPs contain provisions for doing so. Thus, long term pH control can be adequately accomplished.

Recirculation pump NPSH and core cooling are not impacted by this condition, since adequate water level would have been present inside containment to support cold leg recirculation. Recirculation cooling is sufficient to remove all core heat following a design basis LOCA.

The containment pressure transient would not have been impacted by this condition, since injection spray and recirculation spray with fan cooler units in various combinations are sufficient to maintain containment pressure below the design value. Injection spray continued after switchover to recirculation would have, at worst, been terminated slightly earlier than assumed in the FSAR with continued containment spray flow being provided by earlier use of recirculation spray. The public health and safety would not be affected by these conditions.

19 431	LICENSEE EVENT	U.S. NUCLEAR REGULATORY COMMISSION APPROVED OWE NO. 3150-0104 EXPIRES 8/31/85								
FACILITY NAME (1)		DOCKET NUMBER (2)	1	LE	-	(8)			GE I	8
	notes that a	en de la Carlo de la Carlo		1.1	SEQUENTIA		ALVISION			-
	Point Unit 2	0 15 0 0 0 0 2 4 7	8 16	_	012	2 -	- 010	014	OF	014

Cause of Occurrence:

A trend evaluation of test results has been performed. Based on the trend evaluation and a review of the performance required of the instrumentation, we determined that the existing instrumentation is not the most suitable for the design of the tank.

Corrective Action:

The instruments were recalibratd. The test interval has been reduced to monthly, compared to the refueling interval required by the Technical Specification. Trend evaluation of test results will be continued. We plan to replace the Barton Model 288 (LIC-921) with a more accurate Foxboro Model N-823DP. After experience has verified that this instrument performs as intended, the Technical Specification surveillance interval of every refueling outage will be resumed. Join D. O'Toole Vice President

Consolidated Edison Company of New York, Inc. 4 Irving Place, New York, NY 10003 Telephone (212) 460-2533

July 29, 1986

Re: Indian Point Unit No. 2 Docket No. 50-247 LER 86-022-00

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

Dear Sirs:

The attached Licensee Event Report LER-86-022-00 is hereby submitted in accordance with the requirements of 10 CFR Part 50.73.

Very truly yours, Milm D. Joole

attach.

cc: Dr. Thomas E. Murley, Regional Administrator - Region I U. S. Nuclear Regulatory Commission 631 Park Avenue King of Prussia, Pa. 19406

> Senior Resident Inspector U. S. Nuclear Regulatory Commission P. O. Box 38 Buchanan, New York 10511

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

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