

LICENSEE EVENT REPORT (LER)

Facility Name (1) Byron, Unit 1										Docket Number (2) 0 5 0 0 0 4 5 4				Page (3) 1 of 0 2						
Title (4) RWST Temperature Above 100°F																				
Event Date (5)			LER Number (6)					Report Date (7)			Other Facilities Involved (8)									
Month	Day	Year	Year	///	Sequential Number	///	Revision Number	Month	Day	Year	Facility Names				Docket Number(s)					
0 6	1 6	8 5	8 5	---	0 6 0	---	0 0	0 7	1 6	8 5					0 5 0 0 0					
OPERATING MODE (9)			THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10CFR (Check one or more of the following) (11)																	
POWER LEVEL (10) 0 7 5			20.402(b)					20.405(c)					50.73(a)(2)(iv)					73.71(b)		
			20.405(a)(1)(i)					50.36(c)(1)					50.73(a)(2)(v)					73.71(c)		
			20.405(a)(1)(ii)					50.36(c)(2)					50.73(a)(2)(vii)					Other (Specify		
			20.405(a)(1)(iii) X					50.73(a)(2)(i)					50.73(a)(2)(viii)(A)					in Abstract		
			20.405(a)(1)(iv)					50.73(a)(2)(ii)					50.73(a)(2)(viii)(B)					below and in		
			20.405(a)(1)(v)					50.73(a)(2)(iii)					50.73(a)(2)(x)					Text)		
LICENSEE CONTACT FOR THIS LER (12)																				
Name Erich Wurz (Ext. 2250)										TELEPHONE NUMBER AREA CODE 8 1 5 2 3 4 - 5 4 4 1										
COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)																				
CAUSE	SYSTEM	COMPONENT	MANUFAC-TURER	REPORTABLE TO NPRDS	///	CAUSE	SYSTEM	COMPONENT	MANUFAC-TURER	REPORTABLE TO NPRDS	///									
A	B Q	I T K		N	///						///									
SUPPLEMENTAL REPORT EXPECTED (14)												Expected Submission Date (15)								
Yes (If yes, complete EXPECTED SUBMISSION DATE) X NO																				
ABSTRACT (Limit to 1400 spaces, i.e. approximately fifteen single-space typewritten lines) (16)																				

At 0439 on June 16, 1985, it was discovered by the Operating Department that the Refueling Water Storage Tank (RWST) water temperature was above 100°F. Action was immediately begun to decrease the RWST temperature. At 0539, the temperature remained too high and a plant shutdown was initiated and a GSEP Unusual Event declared. By 0822, the temperature dropped below 100°F and the GSEP Unusual Event was terminated.

The problem occurred as a result of operating the RWST heater pump in the manual mode with the heater energized.

To prevent recurrence of this event, the heater will be placed out of service during months when the outside temperature remains around 70°F or above. The pump may then be used to recirculate the water without heating the water. This will ensure that the RWST water temperature will not exceed 100°F.

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)						Page (3)		
		Year	///	Sequential	///	Revision				
				Number		Number				
Byron, Unit 1	0 5 0 0 0 4 5 4	8 5	-	0 6 0	-	0 0	0 2	OF	0 2	

TEXT

On June 16, 1985, at 0439 hours with the Unit in Mode 1 at 75% power, it was discovered by the Operating Department while performing a surveillance that the Refueling Water Storage Tank (RWST) temperature was above 100°F. This exceeded the maximum temperature of 100°F required by Technical Specifications 3.1.2.6 and 3.5.4. The Technical Specification Action statement was entered to restore the tank to operable status in 1 hour or be in Hot Standby within 6 hours. The RWST heater was found to be energized. The heater was immediately shutdown, and the RWST was placed on recirculation flow via the RH Heat Exchanger to Containment Spray pump for a cooldown effort. At 0539, the temperature remained too high. A plant shutdown was thus initiated, and a GSEP Unusual Event was declared. By 0822, the RWST temperature was below 100°F, and the GSEP Unusual Event was terminated. The RWST was thus inoperable for approximately 4 hours.

The problem resulted from running the heater pump in the manual mode with the heater energized. While in the manual mode, there is no automatic pump trip associated with the temperature of the loop. Therefore, the temperature of the tank should have been monitored more closely by the operators so that the heater pump could have been manually tripped prior to exceeding the RWST Technical Specification limit.

From a safety standpoint, the RWST was inoperable for about 4 hours and would have supplied a higher temperature water for cold leg injection than the Technical Specifications allow. A GSEP Unusual Event was initially declared and was terminated when the water temperature was restored within the limits.

The immediate corrective action taken was to de-energize the heater and run the RWST water through a Residual Heat Removal Heat Exchanger recirculating back to the tank via a Containment Spray pump. Long term corrective action is to take the heater breakers out of service when the outside environment has a sustained temperature of 70°F or greater. The Operating Special Projects Department is writing a surveillance to verify that the heater is out of service on a periodic basis whenever the outside environment temperature applies. Thus, the pump may be utilized to recirculate the water without the heater being energized. The completion of the surveillance procedure being written is tracked by Action Item Record #6-85-245.

This is the first occurrence of the RWST water temperature falling outside of its Technical Specification limits.



Commonwealth Edison
Byron Nuclear Station
4450 North German Church Road
Byron, Illinois 61010

July 15, 1985

LTR: BYRON 85-1017

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

Dear Sir:

The enclosed Licensee Event Report from Byron Generating Station is being transmitted to you in accordance with the requirements of 10CFR50.73(a)(2)(i) which requires a 30 day written report.

This report is number 85-060-00; Docket No. 50-454.

Very truly yours,

R. E. Querio
Station Superintendent
Byron Nuclear Power Station

REQ/gt

Enclosure: Licensee Event Report No. 85-060-00

cc: J. G. Keppler, NRC Region III Administrator
J. Hinds, NRC Resident Inspector
INPO Record Center
CECO Distribution List

#3/017

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