

Commonwealth Edison Zion Generating Station Shiloh Blvd. & Lake Michigan Zion, Illinois 60099 Telephone 708 / 746-2084

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

November 19, 1990

Dear Sir:

ي ج

The enclosed Licensee Event Report number 90-022-00, Docket No. 50-295/DPR-39 from Zion Generating Station is being transmitted to you in accordance with the requirements of 10CFR50.73(a)(2)(1)(B), which requires a 30 day written report when any operation or condition occurs that is prohibited by the plant's Technical Specifications.

Very truly yours,

W.R. Kun

2 T. P. Joyce Station Manager Zion Generating Station

TPJ/SM/bg

Enclosure: Licensee Event Report

cc: NRC Region III Administrator NRC Resident Inspector INPO Record Center CECo Distribution List

> 9011260178 901119 PDR ADOCK 05000295 PDC

. A.

100

4						LICENS	EE EVENT	REPOR	T (LER)				F	orm Re	v 2.0	
Facility Name (1) Doc									Docket N	Docket Number (2)			Page (3)			
Zion Unit 1 0 15 10										10 10 12 19 15 1 01 01 3						
Title	(4)										1	n	6	1	××	
Deseta																
Fuen	t Date	breake	I Maxim	UM Outage In	me per	lechnical	Specifi L Pere	cation	s Exceel	ded Other	Encilia			4 / 01	ine ni mana ca	
Month Day Year		Voar	Vern L///Lengential///Incutate					Month Day	e (/)	Contractifictes involved (8)				0 101		
	Uay	rear	rear	11/ Number	101/1/	Number	Honen	Day	rear	- racinty	Names	DOCK	it nun	DELLET		
						1.35				N/A		11	1	1.1	11	
0 1 9	1 15	9 10	9 10	0 1 2	12	010	111	1 19	9 10			11	1	11	11	
ODED	ATTNC			THIS REPORT	IS SUB	MITTED PU	RSUANT T	O THE	REQUIRE	MENTS OF 100	CFR					
UPER	ATING			(Check one	or more	of the f	ollowing) (11)				1.1.1.1.1	1.00			
HUI	06 (9)		1	20.4020	b)	1_12	0.405(c)		15	0.73(a)(2)(iv)	1	73.71	(b)		
POWER	1			20.405(a)(1)(i) 5	0.36(c)(1)	5	0.73(a)(2)(()		73.71	(c)		
LEVEL		1	1	20.4050	a)(1)(i	i) 5	0.36(c)(2)	50	0.73(a)(2)((ii)		Other	(Spec	ify	
(10)	9	1	%	20.405(a)(1)(i	ii) X 5	0.73(a)(2)(i)	50	0.73(a)(2)((A)(iii)	in Ab	stract		
111111	111111	1111111	1,1,1,1,1,1,1	20.4050	a)(1)(i	v) 5	0.73(a)(2)(11)	50	0.73(a)(2)(v	viii)(B))	below	and i	n	
Hill		11111	hill	20.405(a)(1)(v)5	0.73(a)(2)(111) 50	0.73(a)(2)()	<)		Text)			
						LICENSEE	CONTACT	FOR T	HIS LER	(12)						
Name										1	T	LEPHON	E NUM	BER		
										AREA CODE						
Suzanne L. Mika ext. 23					323			71	0 8	7 4	6 -	12 10	18 4			
			COMP	LETE ONE LIN	E FOR E	ACH COMPO	NENT FAL	LURE DI	ESCRIBE	D IN THIS RE	PORT (1	13)				
CAUSE	AUSE SYSTEM COMPONENT			MANUFAC-	(/// CA	USE	SYSTEM	COMPONENT	MANUFAC- REPORTABLE			PRDS	11111			
	1		11		N	111	1111		1						71/1/1	
		1	11			111	11/1		I.		lii				11111	
			SUPPLI	EMENTAL REPO	RT EXPE	CTED (14)					Expected Month Day Year					
							1				Submis	sion				
Ive	s (1f)		molete	EXPECTED SUB	MISSION	DATE		NO			Date	(15)	1	1	1 .	
	Search Arizon	FRI FA	THE LEVE	HULLEN DAR	112221011	PAIL	A	10		the second second second second second		and the second second				

On October 19, 1990 during the 1590 Institute of Nuclear Power Operations (INPO) Evaluation, an INPO team member questioned the lack o' an allowable time limit for racking in the Reactor Trip Bypass Breakers. Further investigation showed that there was a restriction in the Technical Specifications (Tech Specs) limiting the outage time for the Reactor Trip Breakers to eight hours. This requirement was added to the Tech Specs in 1989, but the necessary Operating procedure changes were not correctly identified when the Tech Spec change was implemented. Review of completed Operating Surveillances showed that the Tech Spec limit for the maximum Reactor Trip Breakers. Due to the monthly testing of the Reactor Trip System, fail-safe nature of the system design, and the extensive ATWS response training operators receive, a malfunction of the available train of Reactor Protection is considered remote. The operating procedures affected by the Tech Spec limit were changed to include the maximum outage time for the Reactor Trip Breakers. In addition, a more thorough method of distributing Tech Spec change information will be investigated.

	LICENSEE EVENT REPORT (LER)	EXT CONT	INUAT	ION		Fo	m Rev 2.0
FACILITY NAME (1)	DOCKET NUMBER (2)	LER	NUMBER	Page (3)			
		Year	11/1	Sequential Number	/// Revision /// Number		
Zion Unit 1	0 1 5 1 0 1 0 1 0 1 2 1 9 1	910	-	0 2 2 2	- 010	0 12	OF 0 13

A. CONDITION PRIOR TO EVENT

MODE 1 - Power RX Power 91% RCS [AB] Temperature/ Pressure 559 °F/2235 psig

B. DESCRIPTION OF EVENT

On October 19, 1990 during the 1990 Institute of Nuclear Power Operations (INPO) Evaluation, an INPO team member questioned the lack of an allowable time limit for racking in the Reactor Trip Bypass Breakers during his review of Periodic Test (PT)-5 Reactor Protection Logic-Reactor at Normal Operations. Further research by the Regulatory Assurance Department found that Technical Specification (Tech Spec) 3.1 Reactor Protection Instrumentation and Logic Table 3.1-1 has a note for the Operator Action Column restricting the outage time for the Automatic Reactor Trip Logic and Reactor Trip Breakers to a maximum of eight hours. Review of the Sequence of Events recorder printout shows that on September 15, 1990 the Unit 1 Train A Reactor Trip Breaker was opened for approximately fifteen hours which is seven hours over the Tech Spec requirement. The breaker had already been re-closed when this event was discovered, so no immediate action was necessary. Commitment Number 295-251-90-144 was initiated to track the procedure change to PT-5 that will include the eight hour maximum outage time for the breakers.

C. APPARENT CAUSE OF EVEN

On-Site Review OSR/020/89(2) was submitted to the NRC requesting Tech Spec Changes 116 and 105 for Units 1 and 2 respectively. These Tech Spec Changes incorporated the requirements of Generic Letter 85-09, and added "For Automatic Reactor Trip Logic and Reactor Trip Breakers, the allowable outage time is a maximum of eight hours". The OSR letter required the Operating, Technical Staff, and Electrical Maintenance Departments to review the Tech Spec Change, determine their department procedures that would be affected by the Tech Spec Change, and initiate the appropriate changes. During the review performed by the Operating Department dated 06-17-89, there were no procedures that were identified as needing to be changed as a result of the Tech Spec Change. PT-5, which is an Operating Procedure, has the potential to exceed the maximum outage time because it trips the Reactor Trip Breakers and uses the Bypass Breakers to test the Reactor Protection Logic, but it was not identified during the review. This event was caused by PT-5 not being revised after the Tech Spec change was implemented to include a Precaution statement that would identify the eight hour maximum outage time for the Reactor Trip Breakers. Inadequate training for the Operating Department on the Tech Spec change was a contributing cause of this event.

D. SAFETY ANALYSIS OF EVENT

The safety concern in this situation is for an Anticipated Transient Without Scram (ATWS) during the time that the Train A Reactor Trip Breaker is open. While the Train A breaker is being tested, the Train B breaker must function in order to automatically trip the Reactor in the event of a trip signal. If the train not in test malfunctions, the reactor would not trip. Due to the monthly testing of the Reactor Trip system and fail-safe nature of the design, this possibility is considered remote. Additionally, Operators have procedural guidance, and receive extensive training on recognizing and responding to ATWS conditions. Functional Restoration Guide FR-S.1 "Response to Nuclear Power Generation/ATWS" is an established emergency response procedure that provides the operators with the necessary instructions to mitigate ATWS events.

	LICENSEE EVENT REPORT (LER) T	EXT CONT	NUATI	ION		For	rm Re	v 2.0
FACILITY NAME (1)	DOCKET NUMBER (2)	LER I	UMBER	Page (3)				
		Year	11/1	Sequential Number	/// Revision Number			
Zion Unit 1	0 1 5 1 0 1 0 1 0 12 19 15	910	-	0 1 2 1 2	- 010	0 13	OF	0 1:

E. CORRECTIVE ACTIONS

Procedure changes TO-90-565, TO-90-567, and TO-90-564 were made to PT-5, PT-5A, and PT-5B respectively on October 19, 1990 to include the Tech Spec requirement for the Reactor Trip Breakers maximum outage time.

The Regulatory Assurance department will investigate improvements to the method of distributing Tech Spec change information to ensure that all the requirements of future Tech Spec changes are thoroughly understood.

F. PREVIOUS EVENTS

There have been no documented previous occurrences similar to this event.

G. COMPONENT FAILURE DATA

None