NRC Form	m 366													LIC	EN	SE	E E	VE	NT RE	PORT	(LER)				U		APPE	NOV	(ED	OMB	NO.				ION
FACILITY	Y NAM	ME (1)	-	-		-		-	-	-	Nation to	-			-	-	-			-		D	оск	ET	NUI	MBE	R (2)	-			_		PA	GE (3)
	Ou	ad.	Cit	ie	28	Nu	c1	ea	ır	p	OW	er		Stat	io	n.	Un	i t					0	11	5	0	10	10	0 1	21	6	15	1	0	F	1
TITLE IA								-	-				-							-	-			_		-	-						_	_	-	-
	Un	it	Scr	an	C	au	se	d	#	4	Tu	rb	i	ne C	con	tro	01	Va	lve F	ast C	1	osure														
EVI	ENT C	_	_	T	-		-	-	_	-	R (6	_				-	PORT	-			_	ОТНЕ	A F	ACH	LIT	IES	INV	OLVI	ED	(8)		-	-	-	-	-
MONTH	DA	AY	YEAR	,	YEAR	4			QUE					EVISION	MOI	NTH	DA	Y	YEAR		_	FACILITY	MAN	ES	-	-	-	Di	OCK	ET	NUM	BER	(5)		-	-
	_			+	-	1	-	-	-		-	-	+	OMBEN	-							N/A						0	1	5	0	0	10		i	1
0 6	1	0	8	4	8	4		0		0	7	_		0 0			ı					N/A						0	_	5 1	0	0	0	1	1	1
086		NO.	1	1	HIS	REP	TRC	18	SU!	IME	TTE	D PU	RS	UANT	TO TI	HE RI	EQUIR	EMI	ENTS OF 10	CFR &	(0)	heck one or mo	re of	the	fol	low!	ing) (-	-	_	-	-	-	-	_	-
MODE (9)			4	20.402(b)						20.406(c) X 80.73(a)(2)(i)	73.71(b)								-	-	-										
POWER			T	20.408(a)(1)(i)						50.36(c)(1) 50.73(a)(2					50.73(a)(2)(v)	w) 7:					73.	73.71(c)														
LEVE (10)		0	816	1		20.4	06 (a)(1)	(11)						50	.38(c)	(2)				1	50.73(a)(2)(vi	()									Spe				
						20.4	06(s)(1)	(111)						50	.73(e)	(2)(1)				1	50.73(a)(2)(vi	ii)(A):					need.	366		nd in	Tex	t. NA	C Fo	irm
				T		20.4	06 (a	(1)	(lv)						80	73(a))(2)(ii)				٦	50.73(a)(2)(vi	H) (B)	1												
				Ī		20.4	06(4	1(1)	(v)						80	73(a))(2)(iii	1			1	50.73(e)(2)(x)														
		-	CONTRACTOR											1	LICEN	NSEE	CONT	ACT	FOR THIS	LER (12)																
NAME		N. Trico																										_	LEF	HO	NE N	UMS	BER			
		Day	vid	В.	C	00	k																	1	ARE	A (CODE			6	ext		24	4		
																								3	3	0	19		61	51	4	-	12	12	14	11
								C	OM	PLE	TE	ONE	LI	NE FOR	REAC	CH CC	OMPON	NEN'	T FAILURE	DESCRIB	E	IN THIS REP	PORT	(13	9											-
CAUSE	SYS	TEM	CON	APO P	NENT		N	TU	HE					PROS					CAUSE	SYSTEM		COMPONEN	Ţ	,		UPE	AC-				TABI					
Х	J	J	0 10) 1	31	3	N	1	01	0	7			Y											1	1	_1									
			1	1	1			1	1	-										1		1 1 1			ı	1	1									
-	-			-		-		_	SUI	PPL	EME	NTA	LI	REPORT	EXP	ECTE	ED 114)		-					-	-			erenani.		MO	NTH	0	YAC	Y	EAR
-	-			-		i militari e	-	-		-	-		-			T	-	-			-		_				PEC	TED					-	-	+-	-

On June 10, 1984, at 1:50 a.m., Unit Two was at 86% core thermal power and the weekly turbine test, QOS 5600-1, was in progress. Control valves 1 through 3 operated properly, but when the test switch for control valve #4 was depressed the valve immediately fast closed. The resulting pressure spike collapsed the voids in the vessel and a trip of the Reactor Protection System was received due to high neutron flux. It has been determined that the 90% closed limit switch is remaining engaged, causing contacts in the valve test circuit to remain closed, and thereby fast closing the #4 control valve in the test mode. This line and switch will be examined at the next opportunity. Until then, a wire in the test circuit of the #4 control valve has been lifted to prevent this fast closure in the test mode. A temporary procedure was instituted to enable the weekly turbine test to be performed without a recurrence of this incident.

8407130043 840706 PDR ADDCK 05000265 S PDR

Y YES (If yes, complete EXPECTED SUBMISSION DATE)

ABSTRACT (Limit to 1400 spaces, i.e., approximately fifteen single-space typewritten lines) (16)

	m	

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO. 3150-0104 EXPIRES 8/31/85

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6) PAGE (3)
Quad-Cities Nuclear Power Station, Unit		YEAR SEQUENTIAL MEVISION NUMBER
beation, onte	0 15 10 10 10 12 16	5 5 8 4 - 0 0 7 - 0 0 0 0 0

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

Event Description

Or June 10, 1984, at 1:50 am, Unit Two was at 86% core thermal power and the weekly turbine test, QOS 5600-1, was in progress. Part of this procedure demonstrates that a half scram signal is received when the control valve fast closure solenoid is energized. Control valves 1 through 3 tested properly, but when the test switch for control valve number 4 was depressed, the fast closure solenoid energized immediately and the valve fast closed. The resulting void collapse in the vessel caused the neutron flux to increase and the Reactor Protection System tripped on an APRM Hi-Hi signal. All control rods inserted to position 00 and a normal trip recovery was initiated. This occurrence is being reported as required by 10CFR 50.73 (a) (2) (IV).

CAUSE

Cause of this event is equipment failure. The 90% closed limit switch was already closed when the test button was pushed and this enabled the fast closure solenoid to energize and fast close the valve. The limit switch is manufactured by NAMCO, model number EA 700-70100.

Corrective Action

Immediate corrective actions were to insure that all control rods went to position 00, reset the SCRAM solenoids, and initiate an ordinary scram recovery. In addition, a wire in the test circuit of the number 4 control valve has been lifted so that this will not occur again when testing. Temporary Procedure 2152 has been instituted in order to safely conduct the weekly turbine surveillance. The 90% closed limit switch will be examined the next time U-2 shuts down. Modification M-4-1(2)-84-20 was initiated to provide an indication of when the 90% closed limit switches are picked up, thus letting the operator know that the fast acting solenoid is not energized, and he may proceed with the valve test. This is the first occurrence of this type at Quad Cities Station. We recommend that other stations consider implementing a similar modification to help improve Unit availability.

NJK-84-217

July 6, 1984

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

Reference: Quad-Cities Nuclear Power Station Docket Number 50-265, DPR-30, Unit Two

Enclosed please find Licensee Event Report Number LER 84-007 for Quad-Cities Nuclear Power Station.

This report is submitted to you in accordance with the requirements of the Code of Federal Regulations, Title 10, Part(s) 50.73 (a) (2) (iv), which requires reporting of any event or condition that resulted in manual or automatic initiation of any Engineered Safety Feature.

Respectfully,

COMMONWELATH EDISON COMPANY QUAD-CITIES NUCLEAR PWOER STATION

N. J. Kalivianakis Station Superintendent

NJK/DBC/pdr

Enclosure

CC: B. Rybak
A. Morrongiello
INPO Records Center
NRC Region III
ANI Library

IE22