AC Forn					LIC	ENSEE EVE	NT RE	PORT		A) E)	CLEAR REGULAT	0 3150-0104
ACILITY	NAME (			1 D		1 II. /				OCKET NUMBER		PAGE (3)
TLE (4		Dresd	en Nu	iclear Pow	er stat	tion Unit	5			0 5 0 0	0 2 4 9	1 OF 0
		Four	(4) H	Percent 0.	Concer	ntration in	Tor	us				
EVI	INT DATE	of the local division of the local divisiono	<u></u>	LER NUMBER (	Advertisiant and the local division of	REPORT DATE			OTHER	ACILITIES INVOL	VED (8)	
AONTH	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	MONTH DAY	YEAR		FACILITY NAN	IES	DOCKET NUMBE	R(S)
											0 15 10 10	10111
la	610	04	al		- 010		01/					A 1440
0 8	0 8	84	8 4	009	00		8 4				0 15 0 0	10111
	RATING			492(b)	PURSUANT	20.405(c)	NTS OF 10	CFM 9: (	60,73(a)(2)(iv)	t the following) (11	) 73,71(b)	
POWE	A	18		406 (a) (1) (i)		80.36(e)(1)			50,73(a)(2)(v)		73,71(c)	
LEVE (10)		9 11		406(a)(1)(i)				50.73(a)(2)(vii)		OTHER (Specify in Abstract		
		-	20.4	406(a)(1)(Hi)	X	50.36(c)(2) 60.73(a)(2)(1)			50.73(a)(2)(viii)(A)		below and in Text, NRC Form 366A)	
		[	20.4	405(a)(1)(iv)		50.73(a)(2)(ii)			50.73(a)(2)(viii)(8	1)		
			20.	406(a)(1)(v)		50.73(a)(2)(iiii)			50.73(a)(2)(x)			
			_		1	ICENSEE CONTACT	FOR THIS	LER (12)				
AME										AREA CODE	TELEPHONE NUM	BER
		Brian	McCa	abe (	X-550)					8,1,5	9.4.2.	. 2.9.20
				COMPLETE (	ONE LINE EOR	EACH COMPONENT	FAILURE				9 4 2	121912
			1		REPORTABLE	EACH COMPONENT	TAILURE	CEACHIBE	IN THIS REPOR	1	1 1	
CAUSE	SYSTEM	COMPO	NENT	TURER	TO NPADS		CAUSE	SYSTEM	COMPONENT	TURER	REPORTABLE TO NPRDS	
x	SIA	V IAI	CIB	P13 14 10	Y					111		
		11							TIT	1111		
				SUPPLEME	NTAL REPORT	EXPECTED (14)				EXPECTE	MONTH	DAY YEA
-				SUBMISSION DATE		ST NO				SUBMISSIC	DN I	
BSTRAC		With recei was o The p vacuu of th from lines insta	Unit ved a bserv roble m bro e mo the to lled	an alarm i ved that t em was cau eaker 3-16 unting bol valve boog the operat	percent indicat this con used by 601-20B lts whi y leavin tor. Th damaged	and durin ing high O ncentratio the failu . The fai ch caused ng the val he mountin air lines	2 con n had re of lure the v ve op g bol	centr reac the was a alve en sl ts we	ation in hed four torus to ttributed operator ightly an re remove	the torus (4) perce reactor b to the s to become d damagin d, new bo	a. It ent. ouilding shearing e disorie ng the ai olts were	r
	B4 PI S	40915 DR AD	033( 0033)	0 840905 0500024 PDI							IE	22

LICENSEE EVENT REPOR	RT (LER)	TEXT	CONTINUATION
----------------------	----------	------	--------------

U.S. NUCLEAR REGULATORY COMMISSION

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

	and the second		the second s	
FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)	PAGE (3)	
		YEAR SEQUENTIAL REVISION NUMBER NUMBER		
Dresden Nuclear Power Station Unit	3 0 15 0 0 0 2 4 9	814 - q 019 - 0 p	0 2 OF 0 12	
TEXT /// more space is required, use additional NRC Form 366A's/ (17)	the second se	And the book of the book of the book	- l - l - d l d	

With Unit 3 at 91 percent power and during normal operation, an Operator received an alarm indicating high  $O_2$  concentration in the torus. The concentration had reached four (4) percent. While inspecting the torus area for possible causes of the high torus  $O_2$  concentration, it was determined that the problem was caused by the failure of the torus to reactor building vacuum breaker 3-1601-20B. The valve operator became disoriented from the valve body, causing the valve to open slightly. With the 3-1601-20B open and the torus being at a slight negative pressure with respect to the reactor building, air from the reactor building entered the torus causing the  $O_2$  concentration to reach four (4) percent. Safety significance was minimal because primary containment integrity was maintained and the feeding and bleeding of N<sub>2</sub> to the torus commenced promptly. The previous occurrence of this type was documented in LER/RO #78-016-03L-0.

The failure was attributed to the shearing of the "flathead" mounting bolts which caused the valve oper tor to become disoriented from the valve body leaving the valve slightly open. The bolts became loose and were sheared when the valve was cycled. Further investigation proved that SAE Grade 8 bolts would better serve in preventing this problem from occurring in the future. Therefore, the "flathead" mounting bolts were replaced with "Allen" bolts. This change also allows a much greater torque to be applied during installation. Work Request numbers 38270 and 38271 request that these "Allen" bolts be installed on all H. Pratt valves during the next scheduled refueling outages.

The shearing of the mounting bolts during the valve cycling process also caused an air line to be damaged. This air line was repaired during the maintenance of the vacuum breaker. Testing of the repairs performed on 3-1601-20B during the maintenance process proved successful.

Form 3664



Commonwealth Edison Dresden Nuclear Power Station R.R. #1 Morris, Illinois 60450 Telephone 815/942-2920

September 6, 1984

DJS Ltr #84-880

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

Licensee Event Report #84-009-0, Docket #050249 is being submitted as required by Technical Specification 6.6, NUREG 1022 and 10 CFR 50.73 (a)(2)(i)(B).

D.J. Scott

Station Superintendent Dresden Nuclear Power Station

DJS/kjl

Enclosure

cc: J.G. Keppler, Regional Administrator, Region III
File/NRC
File/Numerical

