

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) Dresden Nuclear Power Station DOCKET NUMBER (2) 0 5 0 0 0 2 3 7 1 OF 0 2

TITLE (4) 4 KV Feed Breaker Failure

EVENT DATE (6)			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)								
1	2	2008	4	8	4	0	2	5	0	0	0	1	1	6	8	5	N/A	0 5 0 0 0
									N/A	0 5 0 0 0								

THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more of the following) (11)

OPERATING MODE (8) N	20.402(b)	20.406(a)	90.73(a)(2)(iv)	73.71(b)
POWER LEVEL (10) 0 0 0	20.406(a)(1)(i)	90.36(a)(1)	90.73(a)(2)(v)	73.71(e)
	20.406(a)(1)(ii)	90.36(a)(2)	90.73(a)(2)(vi)	OTHER (Specify in Abstract below and in Text, NRC Form 305A)
	20.406(a)(1)(iii)	90.73(a)(2)(i)	90.73(a)(2)(vii)(A)	
	20.406(a)(1)(iv)	90.73(a)(2)(ii)	90.73(a)(2)(vii)(B)	
	20.406(a)(1)(v)	90.73(a)(2)(iii)	90.73(a)(2)(viii)	

LICENSEE CONTACT FOR THIS LER (12) NAME: Ronald Jackson (X-549) TELEPHONE NUMBER: 8 1 5 9 4 2 - 2 9 2 0

COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPROS	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPROS
X	E B	5 2	G 0 8 0	N					

SUPPLEMENTAL REPORT EXPECTED (14) YES (if yes, complete EXPECTED SUBMISSION DATE) X NO EXPECTED SUBMISSION DATE (15)

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

During unit refueling outage, while the Operational Analysis Department (OAD) was conducting relay testing for breaker operation, the 4 KV main feed breaker 152-2430 on bus 24-1 failed to trip open. Safety significance was minimal since the unit was in a refueling outage and the redundant breaker on bus 23-1 did not exhibit any problems during the relay surveillance tests.

A subsequent failure to trip occurred when OAD personnel tried to trip the breaker with the local control switch. However, the breaker did trip mechanically when the local trip button was depressed.

The cause of failure was attributed to dirty auxiliary breaker contacts in the trip control logic. The contacts were cleaned and the breaker returned to service after successful testing.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

FACILITY NAME (1)  Dresden Nuclear Power Station	DOCKET NUMBER (2)  0 5   0   0   0   2   3   7	LER NUMBER (6)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
		8   4	—   0   2   5	—   0   0	0   2	OF	0   2

TEXT (If more space is required, use additional NRC Form 368A's) (17)

During unit refueling outage, while the Operational Analysis Department (OAD) was conducting relay testing for breaker operation, the main feed breaker 152-2430 on bus 24-1 failed to trip open. Failure to trip also occurred when the local control switch was utilized to trip the breaker. However, the breaker did trip mechanically upon depression of the local trip button.

After initial inspection, the trip coil was found burned and was later replaced but did not successfully trip the breaker when tested. Further inspection revealed dirty auxiliary breaker contacts as being the cause of the breaker's failure. A high resistance path was generated by the dirty contacts which resulted in a voltage drop across them, thus an insufficient voltage was available to fully energize the coil. However, this voltage was enough to burn out the trip coil since it was inadvertently applied continuously for approximately 4 minutes, thereby exceeding the coil's rating. The continuous application occurred because the OAD Test Engineer inadvertently did not reset the release handle on the lock-out relay while trying to determine why the breaker did not trip.

The contacts were cleaned and the breaker returned to service after successful testing. This event was of minimal safety significance since the unit was in a refueling outage and the redundant breaker did not exhibit a similar problem during the relay surveillance tests. This was the first occurrence of this type on a 4 KV breaker at Dresden.



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DJS Ltr #85-52

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Licensee Event Report #84-025-0, Docket #050237 is being submitted as required by Technical Specification 6.6, NUREG 1022 and 10 CFR 50.73 (a)(2)(ii) and (v).

D.J. Scott  
Station Superintendent  
Dresden Nuclear Power Station

DJS/kjl

Enclosure

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

IE22  
1/1