

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) Dresden Nuclear Power Station Unit 3	DOCKET NUMBER (2) 0 5 0 0 0 2 4 9	PAGE (3) 1 OF 0 2
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TITLE (4)
Unit 3 Reactor Scram

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)
1	0	2	0	8	4	0	1	8	N/A		0 5 0 0 0
1	0	2	0	8	4	0	0	1	1 1 1 5 8 4		0 5 0 0 0

OPERATING MODE (9) N

POWER LEVEL (10) 0 9 4

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

20.402(b)	<input type="checkbox"/>	20.408(e)	<input checked="" type="checkbox"/>	60.73(a)(2)(iv)	<input type="checkbox"/>	73.71(b)	<input type="checkbox"/>
20.408(a)(1)(i)	<input type="checkbox"/>	60.38(a)(1)	<input type="checkbox"/>	60.73(a)(2)(v)	<input type="checkbox"/>	73.71(a)	<input type="checkbox"/>
20.408(a)(1)(ii)	<input type="checkbox"/>	60.38(a)(2)	<input type="checkbox"/>	60.73(a)(2)(vi)	<input type="checkbox"/>	OTHER (Specify in Abstract below and in Text, NRC Form 305A)	<input type="checkbox"/>
20.408(a)(1)(iii)	<input type="checkbox"/>	60.73(a)(2)(i)	<input type="checkbox"/>	60.73(a)(2)(vii)(A)	<input type="checkbox"/>		<input type="checkbox"/>
20.408(a)(1)(iv)	<input type="checkbox"/>	60.73(a)(2)(ii)	<input type="checkbox"/>	60.73(a)(2)(vii)(B)	<input type="checkbox"/>		<input type="checkbox"/>
20.408(a)(1)(v)	<input type="checkbox"/>	60.73(a)(2)(iii)	<input type="checkbox"/>	60.73(a)(2)(x)	<input type="checkbox"/>		<input type="checkbox"/>

LICENSEE CONTACT FOR THIS LER (12)

NAME	TELEPHONE NUMBER
Gary L. Smith (X-610)	AREA CODE: 8 1 5 9 1 4 2 1 - 1 2 9 2 1 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	J B	L C O G 0 8 0		N					
X	S J	L C V C 6 3 5		N					

SUPPLEMENTAL REPORT EXPECTED (14)

YES (If yes, complete EXPECTED SUBMISSION DATE) NO

EXPECTED SUBMISSION DATE (15)	MONTH	DAY	YEAR

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

Unit 3 was at steady power on 10/20/84 with 3A feedwater regulating valve (FWRV) in auto when the reactor scrammed because of low water level. Apparent root cause of scram was decided as a master controller problem since a bad switch was found in the reset circuitry of the controller. The master controller was replaced and reactor was started up using B FWRV. On 11/2/84 the 3A FWRV was again placed in auto and after a few hours had to be taken out of service. The stem to disc was found separated due to a crack in the stem. The stem-disc assembly was replaced, with an added protection of welding the stem to the disc for this new assembly to prevent future separation. Minimal safety significance since all systems functioned as intended during the reactor scram. Last similar occurrence reported by Deviation Report #12-3-83-39.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
		8 4	- 0 1 8	- 0 0	0 2	OF	0 2

TEXT (If more space is required, use additional NRC Form 388A's) (17)

While Unit 3 was at steady power with the 3A feedwater regulating valve in auto, the reactor scrambled on low water level at 1526. Low level occurred when total feedwater went to zero causing the reactor water level to drop below +8" giving a reactor scram. Conclusion drawn from this evolution pointed toward an FWRV problem. The operator for the A FWRV was removed and the stem was manually pulled up and down to see if disc had separated from stem. The stem could be moved up and since it would slowly go back down after being released it was concluded that disc was not separated from stem. Further investigation was conducted and from this effort it was decided that the master controller for the FWRV was the apparent root cause of the scram. The master controller was replaced and the unit was started up using the B FWRV.

While trouble-shooting the original master controller an intermittent problem caused by a bad switch in the reset circuitry on this controller was found. The reset circuitry compares actual level to desired setpoint level in positioning the FWRV.

3A FWRV was not placed back in auto again until the reactor startup on 11/2/84. During this startup however another level problem was experienced and the 3A FWRV had to be taken OOS after only a few hours of operation. Again the operator was removed on this valve and the stem was manually moved up but when released stayed in the same position. Therefore the conclusion was made that the disc had indeed separated from the stem. To prevent recurrence a new stem-disc assembly was installed and this new stem was welded to the disc as an added protection. Minimal safety significance since all systems functioned as intended during the reactor scram. Previous similar occurrence reported by Deviation Report #12-3-83-39.



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November 15, 1984

DJS Ltr #84-1290

U.S. Nuclear Regulatory Commission
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Licensee Event Report #84-018-0, Docket #050249 is being submitted as required by Technical Specification 6.6, NUREG 1022 and 10 CFR 50.73 (a)(2)(iv).

D.J. Scott
Station Superintendent
Dresden Nuclear Power Station

DJS/kjl

Enclosure

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

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