



## LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

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

FACILITY NAME (1)  LASALLE COUNTY STATION	DOCKET NUMBER (2)  05000373	LER NUMBER (5)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
		84	006	00	02	OF	02

TEXT (If more space is required, use additional NRC Form 306A's) (17)

## I. EVENT DESCRIPTION:

With Unit 1 at about 5% power during startup (Mode 2), APRM (IG) channels B and F were found to be reading lower than expected (time: 1050 on 1-21-84). At 1145 the B trip system (both channels B and F are in trip system B) was placed in the tripped condition in accordance with Technical Specification 3.3.1. The APRM's were repaired under work request L32196, satisfactorily tested and returned to service later that day.

## II. CAUSE:

Investigation showed that the operational amplifiers (OA) on the DC Amplifier card was degraded so that the amplifier would not give adequate gain. Along with the initial problems on channels B and F, the same op amp problems were later found on channels A and E. The problem was believed to be due to normal aging.

## III. PROBABLE CONSEQUENCES OF THE OCCURRENCE:

Since the DC Amplifier card was supplying less than the desired gain, the degraded APRM channels would indicate less than the actual power. An RPS (JC) trip on high power would still occur, however, since APRM channels C and D were still reading correctly in RPS channels A and B respectively. Even the degraded channels would respond to increasing flux, though the trips would not occur at the design point.

## IV. CORRECTIVE ACTION:

The immediate corrective action was to place the B RPS trip system in the tripped condition.

The problem of the degraded amplifiers would be detected by operational surveillance LOS-AA-S1 even if the failure was not severe enough to cause a downscale. This surveillance requires the APRM gain adjustment factors (GAF's) to be set to  $1.00 \pm 0.02$ , so that the APRM's indicate actual core power. This surveillance is performed every shift when reactor power is above 25%. The op amps in channels C and D were verified to be operating properly. LIS-NR-11 checks this also.

## V. PREVIOUS EVENTS:

No previous similar failure has been noted.

## VI. NAME AND TELEPHONE NUMBER OF PREPARER:

L. B. Wilson, 815/357-6761, extension 250.



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February 17, 1984

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

Dear Sir:

Reportable Occurrence Report #84-006-00, Docket #050-373 is being submitted to your office in accordance with 10 CFR 50.73(d).

*CE Dargatz*

*for* G. J. Diederich  
Superintendent  
LaSalle County Station

GJD/GW/rg

Enclosure

cc: NRC, Regional Director  
INPO-Records Center  
File/NRC

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*11*