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APPROVED DUE NO 3150 MIN

EXPIRES 8/31.85

ACILITY MASHE (1)	DOCKET IN,MIDER (2)	LER NUMBER 60					PAGE 13		
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I. EVENT DESCRIPTION

On August 17, 1984, at 0845 hours, while Unit 2 was at 52% power, the Unit 2 Main Turbine (TA) received a trip signal. This action immediately produced a Unit 2 Reactor Scram (JC). All plant systems required to operate during the event performed their function as expected.

II. CAUSE

Upon investigation it was discovered that the Unit 2 alternator-exciter "phase-fault" detector (TL) had been activated. When this trip card activated, the alternator-exciter field breaker was automatically opened. This resulted in a trip of the generator (TB), leading to a Main Turbine trip and a reactor scram.

Upon investigation it was discovered that the "A" phase of the alternatorexciter stator windings had developed a turn-tc-turn fault. This turn-toturn fault produced a voltage imbalance in the three-phase "Y" network. This imbalance was immediately detected by the phase fault detector, resulting in an alarm, and the opening of the exciter field breaker.

With the field breaker opened, the Unit 2 turbine tripped producing a scram of the reactor.

III. PROBABLE CONSEQUENCES OF THE OCCURRENCE

The consequences of this event were minimal. If the phase fault detector had not activated, the stator overcurrent device would have tripped the exciter, protecting the turbine-generator. If the unit had been operating at any power up to 100%, the event that occurred would have produced a similar effect.

IV. CORRECTIVE ACTION

The phase fault detector circuit board in the Unit 2 alternator-exciter control circuit was replaced with a new board. (The old board was tested and found to be in operational condition.) This was to assure that no problems did exist in the phase fault circuit.

Since a turn-to-turn fault did occur in the stator windings of the alternatorexciter it was necessary to replace the alternator with a new one. The new alternator was tested and found to operate correctly. Unit 2 was returned to service on 8/30/84.

NAC Form 3966 (5-53)	LICENSEE EVENT REPO	APPROVED OWE NO 3150 MM					
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V. PREVIOUS OCCURRENCES

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No previous occurrences of this nature have occurred before at LaSalle.

VI. NAME AND TELEPHONE NUMBER OF PREPARER

R. D. Koenig, 815/357-6761, extension 499.



Commonwealth Edison LaSalle County Nuclear Station Rural Route #1, Box 220 Marseilles, Itlinois 61341 Telephone 815/357-6761

September 11, 1984

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

Dear Sir:

Reportable Occurrence Report #84-052-00, Docket #050-374 is being submitted to your office in accordance with 1 DCFR 50.73.

CE Sargent

G. J. Diederich Superintendent LaSalle County Station

GJD/MLD/kg

Enclosure

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

