



August 8, 1974

Mr. John F. O'Leary, Director
 Directorate of Licensing
 Office of Regulation
 U. S. Atomic Energy Commission
 Washington, D. C. 20545

Dear Mr. O'Leary:

UNUSUAL EVENT NOS. 250-74-5 AND 251-74-5
 TURKEY POINT PLANT UNITS 3 AND 4
 HIGH FAILURE RATE OF OPERATIONAL AMPLIFIER
 IN THE NUCLEAR INSTRUMENTATION SYSTEM FLUX
 DEVIATION ALARM CIRCUIT

In accordance with Technical Specification 6.6.2b, the following unusual event is reported:

Abnormally high failure rates have occurred in the Teledyne/Philbrick-Nexus Type 140801 operational amplifiers used in the Nuclear Instrumentation System Upper and Lower Flux Deviation Circuits. These amplifiers are used in two different applications in the power range flux detection circuitry; 1) as an averaging summator for the cutput signals from all four detection channels and 2) as a comparator which compares the above average signal with the signal from each channel. Failure of these amplifiers in either mode of operation will result in a continuous deviation alarm in the annunciator panel. In the event such an alarm occurs, the channels are immediately checked for proper operation, and any malfunctioning amplifiers are replaced.

The problem has been discussed with the reactor vendor who has agreed to investigate the cause of the failures and recommend a solution. These amplifiers are not part of the protective circuitry, therefore, their failure does not affect the safe operation of the nuclear units.

Very truly yours,

A. D. Schmidt

A. D. Schmidt
 Director of Power Resources

DWR/cpc

cc: Mr. Norman C. Moseley
 Jack R. Newman, Esquire

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