



**Commonwealth Edison**

Quad Cities Nuclear Power Station  
22710 206 Avenue North  
Cordova, Illinois 61242  
Telephone 309, 854-2241

NJK-77-204

Telecopy: Region III, Attention: Mr. N. Jackiw

May 9, 1977

J. Keppler, Regional Director  
Office of Inspection and Enforcement  
Region III  
U.S. Nuclear Regulatory Commission  
799 Roosevelt Road  
Glen Ellyn, Illinois 60137

Reference: Quad-Cities Nuclear Power Station, Unit 1  
Docket No. 50-254, DPR-29  
Appendix A, Section 6.6.B.1.d.

Dear Mr. Keppler:

The purpose of this letter is to provide you with notification of a Reportable Occurrence as required by Technical Specification 6.6.B.1 within 24 hours of the occurrence.

On May 7, 1977 the station experienced a momentary short period of less than five seconds on Unit One during a shutdown margin demonstration. This occurrence demonstrated that a short period of less than five seconds was also experienced on Unit One during a similar shutdown margin demonstration performed on May 4, 1977. On May 4, however, the period information was insufficient to clearly demonstrate the magnitude of the suspect period and an analysis of the data available led to the conclusion that a short period had not occurred. An in-house deviation report (D-4-1-77-40) was initiated for the May 4, 1977 occurrence because the procedure for performing the shutdown margin was not followed. The operator quickly inserted the notch to terminate the event.

To demonstrate that a short period had not occurred, and to obtain the necessary shutdown margin data, the test was repeated on May 7, 1977. At that time an error in judgement was made by the nuclear engineer in allowing the reactor operator to continuously withdraw a control rod during approach to the critical rod configuration. In addition, a procedure violation occurred in that the rod movements performed were not governed by an approved procedure. The critical rod had to be re-inserted to establish a manageable period. This occurrence demonstrated the existence of momentary periods shorter than 5 seconds in both shutdown margin demonstration cases.

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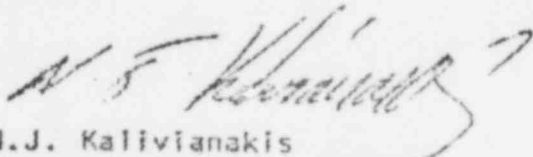
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In each case the immediate action taken by the reactor operator was safe, correct, and appropriate. The short periods existed for only approximately 4 seconds and 9 seconds respectively. There were no health or safety consequences resulting from this occurrence.

This occurrence was discussed by telephone with Mr. N. Jackiw of your office on May 8, 1977. Further information will be provided by Reportable Occurrence Report RO 50-254/77-23 which will be submitted within 14 days of the date of this occurrence.

Very truly yours,

COMMONWEALTH EDISON COMPANY  
QUAD-CITIES NUCLEAR POWER STATION



N.J. Kalivianakis  
Station Superintendent

NJK/GS/vmb

cc: M.S. Turbak