



Commonwealth Edison
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July 18, 1983

Mr. Harold R. Denton, Director
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Washington, DC 20555

Subject: Dresden Station Units 2 and 3
Quad Cities Station Units 1 and 2
Status of NUREG 0737 Item II.K.3.18
Modification of ADS Logic
NRC Docket Nos. 50-237/249 & 50-254/265

References (a): T.J. Rausch letter to D.G. Eisenhüt
dated December 28, 1982.

(b): D.B. Vassallo letter to D.L. Farrar
dated June 3, 1983.

(c): D.M. Crutchfield letter to D.L. Farrar
dated June 3, 1983.

Dear Mr. Denton:

In the reference (1), Commonwealth Edison proposed two modifications for Dresden Units 2 and 3 and Quad Cities Units 1 and 2. These proposed modifications were in response to Commonwealth Edison's commitment for Automatic Depressurization System (ADS) logic changes as required by NUREG 0737 Item II.K.3.18.

Upon recommendation by General Electric, option 4 as described in their BWR owners group response has been selected for implementation, rather than option 2 as was outlined in Reference (a). Option 2 called for the installation of a manual ADS inhibit switch and the elimination of the high drywell pressure trip. Option 4 was found acceptable by the NRC per References (b) and (c). This change does not affect the timetable proposed in our referenced letter, and Commonwealth Edison's commitment to make the modifications has not changed.

Option 4 requires the following two modifications:

- 1) Installation of a timer bypassing the high drywell pressure trip if a low reactor pressure vessel water level condition continues for a set period of time;
- 2) Installation of a manual ADS inhibit switch.

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General Electric's recommendation was based on the following points:

- 1) The bypass timer will allow more time for the operator to evaluate and act on an event.
- 2) The bypass timer will allow more time for restoring the water level in the reactor.

In regard to References (a) and (b), the setting of the bypass timer has not been selected. The bypass timer setting is dependent on plant specific considerations. The architect engineer selected to implement the ADS logic changes will perform the necessary calculations to determine the setting and will provide Commonwealth Edison with the justification for this setting prior to the actual modification of the ADS logic circuitry. The bypass timer setting and its justification will be available by November 2, 1983.

It is our intent to revise appropriate operating and surveillance procedures at the time the modifications are completed for the appropriate unit. It is felt that no Technical Specification changes are deemed necessary. Testing of the inhibit switch will be incorporated into the existing procedures covering the ADS logic test and simulated automatic actuation currently required by the Technical Specifications.

Installation of these modifications would begin with the Quad Cities Unit 1 Spring 1984 refueling outage (barring unforeseen problems). The installation of the remaining units would be during the Fall 1984, Spring 1985 and Fall 1985 refueling outages for Dresden Unit 2, Dresden Unit 3 and Quad Cities Unit 2, respectively. Because of the long lead times associated with the procurement of safety related equipment, installation at an earlier date is not possible.

One (1) signed original and sixty (60) copies of this transmittal are provided for your use.



B. Rybak
Nuclear Licensing Administrator

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cc: NRC Resident Inspector - Dresden
NRC Resident Inspector - Quad Cities
R. Bevan - NRR
R. Gilbert