



**Commonwealth Edison**  
One First National Plaza, Chicago, Illinois  
Address Reply to: Post Office Box 767  
Chicago, Illinois 60690

July 14, 1983

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

Subject: Zion Station Units 1 and 2  
Supplemental Response to Generic  
Letter 82-28 "Inadequate Core  
Cooling Instrumentation System"  
NRC Docket Nos. 50-295 and 50-304

- References (a): March 19, 1983 letter from  
F. G. Lentine to H. R. Denton.
- (b): December 10, 1982, letter from  
D. G. Eisenhut to All Operating  
Westinghouse and CE PWR's.

Dear Mr. Denton:

Reference (a) provided Commonwealth Edison's response to the subject Generic Letter for Zion Station. In accordance with our commitment of that response, this is to provide information on our plans for upgrading the core-exit thermocouples.

It has been determined that the reliability of the core-exit thermocouples and their ability to withstand post-accident environmental effects can be greatly improved by replacing certain components of the system. The existing plastic, Thermo Electric type KK connectors at the reactor head will be replaced with qualified, stainless steel connectors. In addition, the thermocouple cabling in the reactor head area will be replaced with mineral insulated, multiconductor, stainless steel sheath cable. This work is expected to be completed during the 1984 refueling outage.

The desirability of upgrading the remaining field cable and the reference junction boxes is still being evaluated. We will advise the NRC of any additional plans we may develop.

One signed original and forty (40) copies of this letter are provided for your use.

Please address any questions you may have regarding this matter to this office.

Very truly yours,

*F. G. Lentine*

F. G. Lentine  
Nuclear Licensing Administrator

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