



**Commonwealth Edison**  
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*QCNP*

February 14, 1983

Mr. James G. Keppler, Regional Administrator  
Directorate of Inspection and  
Enforcement - Region III  
U.S. Nuclear Regulatory Commission  
799 Roosevelt Road  
Glen Ellyn, IL 60137

Subject: Quad Cities Station Units 1 and 2  
Inspection Report Nos. 50-254/82-13  
and 50-265/82-15 - Open Items  
NRC Docket Nos. 50-254 and 50-265

- References (a): C. J. Paperiello letter to Cordell  
Reed dated October 1, 1982.
- (b): T. J. Rausch letter to J. G. Keppler  
dated October 1, 1982.
- (c): C. J. Paperiello letter to T. J.  
Rausch dated December 6, 1982.

Dear Mr. Keppler:

The referenced letters discussed resolution of an open item concerning multiplet analysis capability of our Automated Analytical Instrumentation System (AAIS) to which we committed to review our software system. A review of the AAIS Software has been completed and improvements will consist of the following:

1. The peak search algorithm used in measuring radioactivity will include resolution of multiplet peaks.
2. The calucations for error analysis will be included.
3. The ability to subtract background radiation will be included.
4. Where applicable, a determination of the lower limit of detectability will be included.
5. The algorithms for classifying peaks will be modified.
6. The algorithms for determining detector efficiency will be modified.

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J. G. Keppler

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A schedule for completion of the software changes will be provided by June 15, 1983.

Please direct any questions you may have on this matter to this office.

Very truly yours,



B. Rybak  
Nuclear Licensing Administrator

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cc: Region III Inspector - Quad Cities

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