



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 calculations 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.

FEB 16 1983

J. G. Keppler

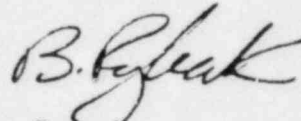
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A schedule for completion of the software changes will be provided by June 15, 1983.

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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