



**Commonwealth Edison**  
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DWG

August 25, 1983

Mr. C. J. Paperiello, Chief  
Emergency Preparedness and Program  
Radiological Safety Branch - 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 August 7, 1982.
- (b): T. J. Rausch letter to J. G. Keppler  
dated October 1, 1982.
- (c): B. Rybak letter to J. G. Keppler  
dated February 14, 1983.
- (d): B. Rybak letter to C. J. Paperiello  
dated June 13, 1983.

Dear Mr. Paperiello:

In the above referenced letters a commitment was made to provide schedules for enhancing the performance of AAIS. The first schedule due on August 31, 1983 involves a multiple peak resolution and peak reclassification to gamma ray analysis. The purpose of this letter is to present this schedule.

After testing various peak resolution schemes, the best results were achieved with procedures developed by Dr. Raymond Gunnink of Lawrence Livermore Laboratory. Dr. Gunnink is an expert in the field of gamma and X-ray analysis and his programs have been used and perfected over a number of year. Software to perform multiple peak resolution and reclassification will be developed for AAIS using his procedures and approached. The timetable to complete this task is as follows:

<u>Item</u>	<u>Completed by</u>
Software Changes	April 2, 1984
Acceptance Testing	April 16, 1984
Station Installation	June 18, 1984
Implementation and Testing	July 2, 1984

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C. J. Paperiello

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Concurrent with these activities, work will proceed on the evaluation of schemes for the next enhancement to AAIS: Improved Efficiency Calculation and Uncertainty. Progress towards an implementation timetable by December 31, 1983, is on schedule.

If you have any questions concerning this matter, please contact this office.

Very truly yours,



B. Rybak  
Nuclear Licensing Administrator

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cc: NRC Resident Inspector - Quad Cities

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