

OCT 25 1983

DMB

Docket No. 50-254
Docket No. 50-265

Commonwealth Edison Company
ATTN: Mr. B. Rybak
Nuclear Licensing Administrator
Post Office Box 767
Chicago, IL 60690

Dear Mr. Rybak:

Thank you for your letter dated August 25, 1983 presenting a schedule for development and implementation of multiple peak resolution and peak reclassification enhancements to AAIS. This schedule is acceptable with the understanding that until these improvements to AAIS are implemented analysts will be instructed to visually examine spectra when Class 2 or Class 3 peaks must be used for quantitative analysis and are provided with alternate means of calculating activity when AAIS results are deemed to be unreliable. This matter was discussed by telephone on September 30, and October 7, 1983 with Mr. A. Kennedy, CECO Chemistry Control Services Supervisor.

Thank you for your cooperation.

Sincerely,

C. J. Paperiello

C. J. Paperiello, Chief
Emergency Preparedness and
Radiological Safety Branch

cc: Cordell Reed, Vice President
D. L. Farrar, Director
of Nuclear Licensing
N. Kalivianakis, Plant
Superintendent

cc w/ltr dtd 8/25/83:
DMB/Document Control Desk (RIDS)
Resident Inspector, RIII
Phyllis Dunton, Attorney
General's Office, Environmental
Control Division

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Paperiello
10/24/83



Commonwealth Edison

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

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

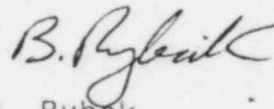
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August 25, 1983

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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