

April 21, 1983

Docket No. 50-454

Commonwealth Edison Company
ATTN: Mr. Cordell Reed
Vice President
Post Office Box 767
Chicago, IL 60690

Gentlemen:

This letter confirms our plans as discussed with you and further discussed with Mr. J. Deress of your staff, to conduct an Integrated Design Inspection for the Byron Unit 1 facility. A tentative schedule is provided in Enclosure 1, and a brief description of the inspection is provided in Enclosure 2. If you have any questions please contact Mr. Dennis Allison, telephone number: (301) 492-9615.

Your cooperation with us is appreciated.

Sincerely,

Original signed by C.E. Norelius

C. E. Norelius, Director
Division of Project and
Resident Programs

- cc: J. G. Keppler, RIII
- A. B. Davis, RIII
- R. L. Spessard, RIII
- D. W. Hayes, RIII
- W. L. Forney, RIII, SRI
- J. M. Hinds, Jr., RIII
- D. Allison, IE

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OFFICE	RIII	RIII	RIII			
SURNAME	Hayes, rl	Knop	Norelius			
DATE	4/18/83	4/18/83				

Enclosure 1
Tentativ- Schedule

<u>Week Beginning</u>	<u>Activity</u>
April 18	Begin gathering background
April 25	Continue gathering background
May 2	Provide background to team Team begin preparation
May 9	Continue preparation
May 16	Continue preparation
May 23	Begin inspection One day at site Two days at Commonwealth Edison Two days at Sargent & Lundy
May 31	Continue inspection Four days at Sargent & Lundy
June 6	Continue inspection Five days at Sargent & Lundy
June 13	No inspection
June 20	Resume inspection Two days at site Three days at selected vendors Various team members at different locations such as Westinghouse, Sargent & Lundy, Field Engineering, or Nuclear Power Services
June 27	Continue inspection Two days inspection One day exit meeting

Enclosure 2

Description of Inspection

The inspection is an interoffice NRC effort conducted with contractor assistance. Team selections are made to provide technical expertise and design experience in five disciplines:

1. Mechanical Systems
2. Mechanical Components
3. Civil and Structural
4. Electrical Power
5. Instrumentation and Control

A sample system will be selected and the inspection will concentrate on that system.

The inspection team will review the organization's staffing and procedures and interview personnel to determine the responsibilities of and the relationships among the entities involved in the design process. The general levels of personnel qualification and the guidance provided will also be noted. Primary emphasis will be placed upon reviewing the adequacy of design details (or products) as a means of measuring how well the design process has functioned in the selected sample area. In reviewing the design details the team will focus on the following items:

1. Validity of design inputs and assumptions.
2. Validity of design specifications.
3. Validity of analyses.
4. Identification of system interface requirements.
5. Potential indirect effects of changes.
6. Proper component classification.
7. Revision control.
8. Documentation control.
9. Verification of as-built condition.

In some areas, such as the review of piping stress analyses, the sample may be narrowed to include only a part of the sample system. In other areas, such as electrical power, the sample may be broadened into areas that are not related solely to the sample system.