Commonwealth Edison
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Address Reply to: Post Office Box 767
Chicago, Illinois 60690

July 21, 1980

Mr. Harold R. Denton, Director
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Washington, DC 20555

Subject: Zion Station Units 1 and 2
Additional Information Regarding
NUREG-0578 Item 2.1.8a, Improved
Post-Accident Sampling Capability
NRC Docket Nos. 50-295 and 50-304

Dear Mr. Denton:

As a result of recent discussions with members of your staff concerning NUREG-0578 Item 2.1.8a, Improved Post-Accident Sampling Capability, the primary NRC reviewer for Zion, Mr. P. G. Stoddart, has requested additional information to complete his review. Under separate cover Commonwealth Edison Company has sent to Mr. Stoddart the following drawings:

A. SENTRY EQUIPMENT CORPORATION DESCRIPTIONS

Drawing No.	Title
150-11-002-3	Hi-Rad Req'd Clearances, Piping & Utilities
151-11-002-1	Sample Cooler Rack
152-11-001-1	Liquid Sampling Panel
153-11-001-1	Reactor Coolant Module No. 1
154-11-001-1	Demin. Reactor Coolant Module
155-11-001-1	Radwaste Module No. 4
156-11-001-1	Cart/Cask for LSP
158-11-001-1	Chemical Analysis Panel
159-11-001-1	Chemical Analysis Monitor Panel
160-11-001-1	CASP (Containment Air Sampling Panel)
162-11-001-1	Mobile Cask for CASP
PANEL "A"	Hi-Rad Liquid Sampling

B. Zion Station Drawings

Drawing No.	Title
5307-M-3101	Equipment Location Primary Sampling Room
5307M3000 (Sheets 1-4)	Zion Unit 1 Liquid Sampling P&ID
5307M3006	Zion Unit 2 Containment Air Sampling P&ID

The Sentry Equipment descriptions provide both activities and dose rates for various radiation fields and sampling actions. The design of the panel and required shielding is being prepared based on limiting personnel dose rates per sample to a maximum of 100 mrem at one meter distance. Sentry is currently evaluating and analyzing the panel design and various sampling functions based upon the projected accident. This analysis will provide the operator dose rates for different sampling functions from the sample panel and sample room background. This analysis is expected to be available for submittal to the Staff around August 1, 1980.

Please address any questions that you might have concerning this matter to this office.

One (1) signed original and thirty-nine (39) copies of this letter are provided for your use. Under separate cover, one set of the above drawings has been sent to Mr. Stoddart.

Very truly yours,

William F. Naughton

William F. Naughton
Nuclear Licensing Administrator
Pressurized Water Reactors

cc: P. G. Stoddart w/encl.

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