



**Commonwealth Edison**

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

July 28, 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 Response to Loss of  
Offsite Power Survey  
NRC Docket Nos. 50-295 and 50-304

References (a): May 6, 1980 letter from S. A. Varga  
to D. L. Peoples

(b): June 5, 1980 letter from W. F. Naughton  
to H. R. Denton

Dear Mr. Denton:

Reference (a) requested Commonwealth Edison Company to provide a history of experienced total and partial power outages and attendant degraded voltage or frequency conditions of the grid that have occurred at Zion Station. In Reference (b), Commonwealth Edison reported to the NRC that there had been one Reportable Occurrence at Zion Station which resulted in a partial loss of offsite power.

However, through a further review of the operating experience at Zion Station, an outage of System Auxiliary Transformer 242 on January 13, 1980 which resulted in a partial loss of offsite power was found. This outage was classified as a Non-Reportable Occurrence because both Units 1 and 2 were in cold shutdown at the time of occurrence. The Attachment to this letter contains the information related to this partial loss of offsite power as requested in the enclosure to Reference (a).

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 transmittal are provided for your use.

Very truly yours,

William F. Naughton  
Nuclear Licensing Administrator  
Pressurized Water Reactors

Attachment

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ATTACHMENT

Commonwealth Edison response to Loss of Offsite Power  
Survey.

A. For losses of offsite power where less than all offsite power  
was lost:

1. How many circuits to the offsite network are normally  
available and how many were lost during the event?

Two circuits are normally available. One was lost  
during the event.

2. What was the cause of the event?

The cause of the event was equipment failure. A shorted  
heat detector initiated the Deluge System on Tr. #242.  
The water deluge caused a short across the insulator  
bushings which tripped the transformer.

3. Why did the other lines not fail when some did fail?

There were no line failures.

4. Was any voltage increase or decrease experienced just  
prior to or during the outage? If so, please give details,  
voltages reached, effects, etc.

No voltage increase or decrease was experienced as part  
of this event. The ESS buses were energized from Unit 1.

5. Was any frequency decay experienced just prior to or during  
the outage? If so, please give details, lowest frequency  
reached, decay, rate, effects on equipment operation, etc.

No frequency decay was experienced.

6. How long was power unavailable from the circuit?

Power was unavailable for 14 hours & 45 minutes.

7. Date of the event.

January 13, 1980

B. For losses of all offsite power:

To date, there have been no events resulting in complete  
loss of offsite power at Zion Station.