

U.S. NUCLEAR REGULATORY COMMISSION
OFFICE OF INSPECTION AND ENFORCEMENT

REGION III

Report No. 50-010/77-36; 50-237/77-33; 50-249/77-31; 50-254/77-30;
50-265/77-30; 50-295/77-27; 50-304/77-29

Docket No. 50-10, 50-237; 50-249;
50-254; 50-265; 50-295;
50-304

License No. DPR-2; DPR-19;
DPR-25; DPR-29; DPR-30;
DPR-39, DPR-48

Licensee: Commonwealth Edison Company
P.O. Box 767
Chicago, IL 60690

Facility Name: Dresden Nuclear Power Station, Units 1, 2 and 3
Quad-Cities Nuclear Power Station, Units 1 and 2
Zion Nuclear Power Station, Units 1 and 2

Inspection at: Commonwealth Edison Corporate Office, Chicago, IL

Inspection Conducted: November 29, 1977

Inspectors: R. C. Knop
G. Fiorelli
J. G. Keppler

Approved by: *Gaston Fiorelli*
Gaston Fiorelli, Chief
Reactor Operations and
Nuclear Support Branch

12/19/77

Inspection Summary

Inspection on November 29, 1977 (Report No. 50-010/77-36; 50-237/77-33;
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Areas Inspected: This was a special, announced meeting conducted to discuss the performance of the three Commonwealth Edison Nuclear Stations, to discuss current actions being taken and to discuss actions being taken by Commonwealth Edison to improve regulatory performance.

Results: Of the areas discussed, no further items of noncompliance or deviations were identified.

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DETAILS

1. Attendance

CECo

J. J. O'Connor, Executive Vice President
B. Lee, Jr., Vice President (Const., Prod., Licensing and
Envir. Affairs)
B. Warden, Staff Engineer

RIII

J. Keppler, Regional Director, RIII
G. Fiorelli, Branch Chief, RO&NSB, RIII
R. Knop, Section Chief, RO&NSB, RIII

2. Corporate Meeting

The meeting was held to discuss the performance of the three Commonwealth Edison Nuclear Stations during the past three years, to discuss current actions being taken with regard to Commonwealth Edison (CECo) nuclear plants and to discuss actions being taken by CECo to improve regulatory performance.

The discussion on CECo performance centered on the noncompliance record and the large number of preventable licensee event reports being experienced at each of the three nuclear stations.

The more significant events which occurred at the three CECo plants were discussed in detail to demonstrate the concerns by NRC for a need for improvement in management control, procedure conformance and plant review functions.

The escalated enforcement actions and related management conferences based on these events were presented to show that while each of these conferences appeared to have resulted in improvement in performance in specific areas, subsequent events which occurred would indicate that the total corrective actions taken by the company were incomplete.

Based on this performance, specific recommendations were made within the NRC to improve the performance of the CECo nuclear plants.

- a. Review of enforcement options available to be taken with regard to Zion events occurring in July 1977. These events were the two water hammer events occurring on July 8 and 10, 1977, and the invalidating of ECCS signals occurring on July 12, 1977.

This review resulted in a civil penalty of \$21,000 being imposed on CECo.

- b. Review of actions to be taken with regard to the Senior Reactor (SRO) Operator and Reactor Operator (RO) involved in the July 12, 1977 incident.

This review resulted in a regional enforcement letter being sent to the SRO and a letter being sent to CECo regarding the RO performance. In addition, discussions are currently being held with reactor licensing personnel to determine what additional steps should be taken with regard to these operators and licensed operators involved in events at other CECo sites.

- c. Review an augmented inspection program at all these sites.

The inspection program has been augmented at all three CECo nuclear power facilities effective December 1, 1977. This augmented program will involve weekly inspections of areas requiring further corrective actions.

- d. Define general area requiring improvement by CECo.

The general areas requiring corrective actions were:

- (1) Improvement in Management controls, assignment of responsibilities, interdepartment communications and stability of the organization.

The licensee stated they are currently in the process of obtaining a management consultant.

- (2) Improvement in training with regard to tests which if improperly implemented could lead to a degraded mode.
- (3) Improvements in valving and equipment outage control.
- (4) Improvements in procedures required in the area of:

- (a) adequate cautions and precautions
 - (b) meaningful management review
 - (c) procedure conformance
 - (d) "walk through" of new procedures
- (5) Independent review of health physics problems.
- (6) Overview of Nuclear Engineer's activities.

Periodic meetings will be held to determine in further detail what specific corrective actions will be taken by CEC as well as the time frame for completion. During these periodic meetings, significant events and trending of performance indicators will be discussed.