

UNITED STATES NUCLEAR REGULATORY COMMISSION
OFFICE OF INSPECTION AND ENFORCEMENT

REGION III

Report of Emergency Planning Inspection

IE Inspection Report No. 050-010/77-02
IE Inspection Report No. 050-237/77-02
IE Inspection Report No. 050-249/77-02

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

Dresden Nuclear Power Station
Units 1, 2 and 3
Morris, Illinois

License No. DPR-2
License No. DPR-19
License No. DPR-25
Category: C

Type of Licensee: BWR (GE) 700 Mwt - Unit 1
BWR (GE) 2527 Mwt - Units 2 and 3

Type of Inspection: Routine, Unannounced

Dates of Inspection: February 2-4 and 7, 1977

Principal Inspector: *M. J. Oestmann*
M. J. Oestmann 2/24/77
(Date)

Accompanying Inspectors: None

Other Accompanying Personnel: None

Reviewed By: *J. A. Pagliaro*
J. A. Pagliaro, Chief 2/24/77
Environmental and Special (Date)
Projects Section

8009250 550

SUMMARY OF FINDINGS

Inspection Summary

Unannounced, routine emergency planning inspection conducted on February 2-4 and 7, (Unit 1, 77-02), (Unit 2, 77-02) and (Unit 3, 77-02): Reviewed changes in the Generating Stations Emergency Plan (GSEP) and implementing procedures (EIPs); reviewed documentation on tests and drills, training, and letters of agreement with offsite support agencies; discussed coordination with offsite support agencies; examined emergency equipment, instrumentation, first-aid facilities and supplies; and followed up a deviation identified in a previous inspection.^{1/} One item of noncompliance was identified by the inspector, pertaining to inadequate document control of the copy of the GSEP and telephone directory in the licensee's control room.

Enforcement Item

Infraction

Contrary to Section VI, Appendix B to 10 CFR Part 50 and Section 9.1 of the GSEP, the licensee failed to assure that all current changes to the GSEP and the telephone directory, dated October 4, 1976, had been distributed and incorporated into the copy of these documents in the licensee's control room. (Paragraph 3, Report Details)

Licensee Action on Previously Identified Enforcement Items

No previously identified enforcement items within the scope of this inspection.

Other Significant Items

A. Systems and Components

Within the next several months, the licensee plans to install remote readout equipment to telemeter meteorological data from the 300-foot meteorological tower to the control room and the licensee's headquarters. (Paragraph 6, Report Details)

B. Facility Items (Plans and Procedures)

None.

^{1/} IE Inspection Rpts No. 050-010/76-22, No. 050-237/76-24 and No. 050-249/76-24.

C. Managerial Items

V. Chaney is the new Emergency Planning Coordinator for the licensee.

D. Deviations

None.

E. Status of Previously Reported Unresolved Items

No previously reported unresolved items within the scope of this inspection.

Management Interview

A management interview was conducted with Messrs. B. B. Stephenson, B. Shelton, D. Adam, D. Simpson, and T. Shaw. The following items were discussed with the licensee representatives:

- A. The scope and intent of the specific inspection. (Paragraph 2, Report Details)
- B. The results of the inspector's discussions with offsite support agencies. (Paragraph 4, Report Details)
- C. The examination of emergency kits, onsite first-aid facilities and supplies, and effluent monitors. (Paragraphs 5, 6 and 7.a, Report Details)
- D. The item of noncompliance pertaining to the licensee's failure to incorporate updated changes to the GSEP and telephone directory in the control room copy. (Paragraph 3, Report Details)
- E. The results of training, tests and drills. (Paragraphs 8 and 9, Report Details)
- F. The results of onsite and quality assurance audits. (Paragraph 11, Report Details)

REPORT DETAILS

1. Persons Contacted

Licensee Personnel

V. Chaney, Generating Stations Emergency Plan Coordinator, CECO
F. Palmer, Command Center Director and Division Manager - Nuclear
Stations, CECO
B. B. Stephenson, Station Superintendent, Dresden
B. Shelton, Administrative Assistant, Dresden
D. Adam, Radiation-Chemistry Supervisor, Dresden
D. Simpson, Radiation Protection Engineer, Dresden
G. Bergan, Plant Chemist, Dresden
B. Zank, Training Supervisor, Dresden
T. Shaw, Quality Assurance Engineer, Dresden
F. Willaford, formerly Quality Assurance Engineer, Dresden
S. A. Cieszkiewicz, Procedures Coordinator, Dresden

Offsite Support Personnel

D. R. Ulivi, Assistant Fire Chief, Coal City, Illinois
J. Perona, Captain, Coal City Fire District, Illinois
G. Joellenbeck, Captain, Emergency Squad, Coal City, Illinois
R. Piercy, Tri-County Ambulance Service, Channahon, Illinois
W. Button, Sheriff, Grundy County, Morris, Illinois
R. Fox, Lieutenant, Sheriff's Department, Grundy County
J. Temple, Director, Emergency Services and Disaster Agency,
Grundy County, Morris, Illinois
J. Talerico, Director, Emergency Services and Disaster Agency,
Will County, Joliet, Illinois
J. Trizna, Sheriff, Will County, Joliet, Illinois
W. McCanna, Sargent, Sheriff's Department, Will County, Joliet,
Illinois
W. Hornyman, Lieutenant, District 5, Illinois State Police, Lockport,
Illinois
N. Sharp, Administrator, St. Joseph Hospital, Joliet, Illinois
G. Boyd, Fire Chief, Volunteer Fire Department, Braidwood, Illinois
S. Hexdall, Fire Chief, Volunteer Fire Department, Morris,
Illinois
C. Divley, Corporal, Illinois State Police, Springfield, Illinois
G. Day, Executive Secretary, Illinois Atomic Energy Commission,
Springfield, Illinois
B. Shipp, ERDA, Chicago Operations Office, Argonne, Illinois
R. Minue, Environmental Control Engineer, Division of Nuclear
Safety, Illinois State Department of Public Health, Springfield,
Illinois
R. Arnett, Lieutenant, U.S. Coast Guard, Chicago, Illinois
R. Linden, Chief, Construction Operations, Chicago District Corps
of Engineers, Department of the Army, Chicago, Illinois

2. General

This inspection was a review of the Generating Station Emergency Plan (GSEP), dated October 4, 1976, which had replaced previous emergency plans. The 1976 GSEP and the associated emergency plan implementing procedures (EPIPs) and Technical Specifications were used as primary criteria for this inspection.

Documentation pertaining to various aspects of emergency preparedness including medical arrangements, training, tests and drills, letters of agreement and coordination with offsite support agencies, was reviewed. A number of the offsite support agencies listed in EPIPs were either contacted by phone or visited by the inspector. Selected first aid facilities, supplies, equipment and instrumentation planned for use in the event of an emergency at the plant and at the offsite hospital were examined. Program management function including review, audit and update was reviewed and discussed.

3. Revisions to GSEP

Under the direction of the GSEP coordinator, the GSEP has been updated on October 4, 1976. Certain pages in Section 4 have also been updated on December 30, 1976, which include provisions for evacuation of offsite personnel using the Environmental Protection Agency's protective action guidelines for dose levels for evacuation. In checking the distribution of the changes to the GSEP, the inspector found the copy of GSEP and the telephone directory in the Dresden Nuclear Power Station's control room to be out-of-date except for the pages 4-5, 4-9, and 4-10, in Section 4 mentioned above. Contrary to Section VI of Appendix B to 10 CFR Part 50, the licensee's failure to assure that the changes to the GSEP and telephone directory had been distributed and incorporated into the copy of these documents in the licensee's control room constitutes an item of noncompliance. This item will be examined during a subsequent inspection.

4. Agreement and Coordination with Offsite Agencies

Representatives of the offsite agencies listed in Paragraph 1 above were either contacted by phone or visited by the inspector during this inspection. The discussions concern the degree of involvement, frequency of contact, participation of licensee-sponsored drills or training and the level of understanding of respective roles in emergency support.

The inspector found that all offsite support agencies considered that the licensee had maintained close coordination and contact with the support agencies. All agencies were found to have updated copies of the 1976 GSEP. Representatives from many agencies participated in a coordination meeting held at the plant on October 22, 1976.

During 1976, the licensee updated his letters of agreement with the majority of the offsite support agencies. In January 1977, a letter requesting agreement was sent to the Tri-County Ambulance Service which is the back-up service to the Coal City Emergency Squad Ambulance Service. Upon investigation, the inspector found that the Tri-County Ambulance Service would respond favorably to the licensee's request.

The inspector also noted that an emergency relocation plan for Grundy and Will Counties had been developed and coordinated by the Grundy County Emergency Services and Disaster Agency in the event of an offsite evacuation of the public.

5. Facilities and Equipment

Selected emergency kits, equipment, survey instrumentation, first-aid facilities and supplies were examined for their maintenance in a ready and operable condition. As discussed in a previous inspection,^{2/} the inspector noted that the first-aid kit #36 had a full complement of supplies and had been inventoried monthly. Several #24 first-aid kits were also examined and found to be adequately supplied. Examination of the Dresden mobile trailer had indicated that it had been inventoried quarterly. A new neutron detector had been obtained for the mobile trailer. The inspector also found that the supplies and equipment in the emergency trailer at the St. Joseph's Hospital in Joliet, Illinois, had been adequately maintained and equipment calibrated on a quarterly basis.

6. Monitoring Systems and Survey Instruments

Means for monitoring and determining the significance of potential releases of radioactivity were discussed with the licensee representatives. Selected instrumentation including stack and ventilation monitors, liquid effluent monitors, area monitors and meteorological instrumentation, survey team portable instrumentation and other decisional aids were examined. The process, survey monitors, and radwaste instrumentation were found to be operable and functioning properly. Calibration checks and documentation were also reviewed. All portable emergency instrumentation was found to have posted calibration dates. The inspector also observed new readout equipment in the licensee's headquarters office for telemetering meteorological data from all his meteorological towers at different plant sites. Within the next several months, the licensee plans to install new readout equipment to telemeter data from the meteorological instrumentation at the 35-, 50-, 150- and 300- foot elevations on the tower into the Dresden control room. This item will be examined during a subsequent inspection.

^{2/} Ibid.

7. Medical Arrangements

a. Onsite First Aid Facilities

The inspector found that the licensee had completed his onsite decontamination and first-aid facilities by January 1, 1977, in accordance with his previous commitment.^{3/} Examination of the decontamination area and first aid supplies indicates that all equipment and supplies were in good order and available in accordance with an inventory checklist. A licensee's contractor, Radiation Management Corporation, also provides emergency supplies for the area. Monthly inventory checks on the supplies had been carried out. This action is responsive to the need for further action identified in the previous inspection reports.^{4/5/6/}

b. Offsite Ambulance and Medical Treatment Facilities

The inspector visited the Coal City Emergency Squad where three ambulances are available for emergency. In addition an agreement with the Tri-County Ambulance Service is pending; a letter requesting agreement has been sent to the Tri-County Ambulance Service on January 21, 1977.

Discussions were also held with the Administrator for the St. Joseph Hospital in Joliet, Illinois, the licensee's designated primary offsite medical facility. The licensee has maintained close contact and coordination with the hospital. In addition, the inspector found that the emergency cart at the hospital, which the licensee maintains, had available the required emergency and decontamination supplies. The hospital has also completed construction of the new emergency treatment facilities discussed in a previous inspection report.^{7/}

Both the Coal City Emergency Squad and the St. Joseph Hospital participated in the medical drill conducted in July 1976. The licensee has also made arrangements for a tertiary care facility for radiation accidents at Northwestern Memorial Hospital.

^{3/} Ltr dtd 4/2/76, from R. L. Bolger, CECO to J. M. Allan, Region III.

^{4/} IE Inspection Rpts No. 050-010/76-03, No. 050-237/76-02 and No. 050-249/76-02.

^{5/} IE Insection Rpts No. 050-010/76-16, No. 050-237/76-19 and No. 050-249/76-19.

^{6/} IE Inspection Rpts No. 050-010/76-22, No. 050-237/76-24 and No. 050-249/76-24.

^{7/} IE Inspection Reports No. 050-010/76-03, No. 050-237/76-02, No. 050-249/76-02.

8. Training

a. Onsite Training

The inspector reviewed the training records for new and experienced employees, and it appears that the training requirements outlined in Section 9.3 of GSEP are being followed. New employees also received a 10-hour first-aid training course. The licensee is planning to use the Bureau of Mines course for first-aid training of the radiation protection personnel. The employees also participate in tests and drills. A video tape from the medical drill conducted in July 1976 has been used for training purposes.

b. Offsite Training

A coordination meeting with offsite support agencies was held on October 22, 1976, to discuss GSEP, various kinds of accidents and methodology on handling radiation accidents, relocation and evacuation of onsite and offsite personnel, letters of agreement and fire protection. Training courses for the Coal City Fire Department were offered by the licensee. The medical drill directed by the licensee's contractor, Radiation Management Corporation, was held in July 1976 and also involved the medical doctors and nurses at the St. Joseph's Hospital as well as the Coal City Emergency Squad.

9. Tests and Drills

The inspector reviewed documentation indicating that the licensee has conducted quarterly emergency drills in accordance with the Technical Specifications and Section 9.2 in GSEP. The drills were observed by the emergency coordinator who prepared the necessary documentation and pointed out the deficiencies noted during the drill. Recommendations to resolve the deficiencies were proposed and entered into the licensee's action item tracking system. These items are not removed from this system until they are completed. The inspector also observed the ^{8/}medical drill in July, 1976 as discussed in a previous inspection report.

10. Implementing Procedures

As pointed out in a previous inspection report,^{9/} the licensee has completed and approved the Dresden Nuclear Power Station EPIP's as listed in Section 10 of GSEP.

^{8/} IE Inspection Rpts No. 050-010/76-16, No. 050-237/76-19 and No. 050-249/76-19.

^{9/} IE Inspection Rpts No. 050-010/76-22, No. 050-237/76-24 and No. 050-249/76-24.

The inspector noted that the medical EIPs prepared by Radiation Management Corporation had been revised in December 1976. The Environmental Director's EIPs, however, are presently being revised. This item will be examined during a subsequent inspection.

11. Onsite Function and Quality Assurance Audits

The inspector reviewed the audits conducted by the onsite audit function and the Quality Assurance Department in regards to emergency planning and preparedness. The licensee has carried out the audit recommendations for improvement in updating the telephone directory in October 1976, and in revising the Quarterly GSEP Trailer Inventory in December 1976.