

*Reactor Facilities
per.*

UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION III
799 ROOSEVELT ROAD
GLEN ELLYN, ILLINOIS 60137

MAY 12 1976

Iowa Electric Light and Power
Company
ATTN: Mr. Duane Arnold, President
Security Building
P. O. Box 351
Cedar Rapids, Iowa 52405

Docket No. 50-331

Gentlemen:

This refers to the inspection conducted by Mr. G. T. Gibson of this office on April 29 and 30, 1976, of activities at the Duane Arnold Energy Center and to the discussion of our findings with Mr. Hammond and others of your staff at the conclusion of the inspection.

The enclosed copy of our inspection report identifies areas examined during the inspection. Within these areas, the inspection consisted of a selective examination of procedures and representative records, observations, and interviews with personnel.

No items of noncompliance with NRC requirements were identified within the scope of this inspection.

In accordance with Section 2.790 of the NRC's "Rules of Practice," Part 2, Title 10, Code of Federal Regulations, a copy of this letter and the enclosed inspection report will be placed in the NRC's Public Document Room, except as follows. If this report contains information that you or your contractors believe to be proprietary, you must apply in writing to this office, within twenty days of your receipt of this letter, to withhold such information from public disclosure. The application must include a full statement of the reasons for which the information is considered proprietary, and should be prepared so that proprietary information identified in the application is contained in an enclosure to the application.



Iowa Electric Light and
Power Company

- 2 -

MAY 12 1976

We will gladly discuss any questions you have concerning this inspection.

Sincerely yours,

James M. Allan, Chief
Fuel Facility and
Materials Safety Branch

Enclosure:
IE Inspection Rpt
No. 050-331/76-10

bcc w/encl:
PDR
Local PDR
NSIC
TIC
Central Files
IE Mail and File Unit

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

REGION III

Report of Emergency Planning Inspection

IE Inspection Report No. 050-331/76-10

Licensee: Iowa Electric Light and Power Company
Security Building
P. O. Box 351
Cedar Rapids, Iowa 52405

Duane Arnold Energy Center
Palo, Iowa

License No. DPR-49
Category: C

Type of Licensee: BWR 1593 MWt (GE)
Type of Inspection: Special, Unannounced
Dates of Inspection: April 29-30, 1976

Principal Inspector: G. T. Gibson

G. T. Gibson
May 10, 1976
(Date)

Accompanying Inspectors: None

Other Accompanying Personnel: None

Reviewed By: *J. A. Pagliaro*
J. A. Pagliaro, Chief
Environmental and Special
Projects Section

May 10, 1976
(Date)

SUMMARY OF FINDINGS

Inspection Summary

Unannounced emergency planning inspection conducted on April 29 and 30, (76-10) for: examination of the implementation of Iowa Electric Light and Power Company corrective actions in response to items of non-compliance, deviation from licensee commitments, and other significant items noted during a previous emergency planning inspection.^{1/}

Enforcement Items

None.

Licensee Action on Previously Identified Enforcement Items

Two items of noncompliance were identified during a previous emergency planning inspection,^{2/} pertaining to licensee failure to: (1) conduct required quarterly Preparedness Plan drills; and (2) failure to record and document drill observations. The corrective actions for the items of noncompliance, as described in the licensee's replies dated January 6 and 20, 1976, were examined during this inspection. The inspector determined the licensee's corrective actions precluded subsequent recurrence of the items of noncompliance during fourth quarter 1975, and first quarter 1976, Preparedness Plan drills. (Paragraph 3, Report Details)

Other Significant Items

A. Systems and Components

1. Alternate Emergency Coordination Center (AECC)

The inspector reviewed the AECC, which has been completed as described in the licensee's reply dated January 20, 1976. The inspector has no further questions regarding this item at this time. (Paragraph 5, Report Details)

2. Public Address, Fire and Evacuation Alarm Systems

The inspector reviewed the results of the licensee's investigation of audibility problems associated with the public address system, fire and evacuation alarm systems, as delineated in the licensee's reply dated January 20, 1976. The inspector determined the licensee has identified areas in the plant which require corrective action. The inspector reviewed maintenance action request (MAR) forms, by which the licensee intends to improve alarm system audibility. This item

1/ IE Inspection Rpt No. 050-331/75-19.

2/ Ibid.

will be reviewed during a subsequent inspection. (Paragraph 5, Report Details)

B. Facility Items (Plans and Procedures)

1. Letters of Agreement with Offsite Agencies

As specified in the previous inspection report^{3/}, the licensee commitment to have letters of agreement with offsite support agencies specified in the DAEC Preparedness Plan sections 7.1, 7.4, 7.7, 7.11 and 11.1 were not met for: the Environmental Protection Agency (EPA), the Energy Research and Development Administration (ERDA), the Palo Fire Department, and the Cedar Rapids Fire Department. The inspector reviewed current letters of agreement with the referenced offsite agencies, and has no further questions regarding this item. (Paragraph 4, Report Details)

2. Annual Review of the DAEC Preparedness Plan

The inspector reviewed the licensee's December, 1975, annual review of the Preparedness Plan. Licensee personnel stated the 1976 annual review would be conducted after the next general emergency exercise, which is presently scheduled for the second quarter of 1976. (Paragraph 4, Report Details)

C. Managerial Items

None.

D. Noncompliance Identified and Corrected by the Licensee

None.

E. Deviations

None.

F. Previously Reported Unresolved Items

None.

Management Interview

The following items were discussed April 30, 1976, with Mr. E. Hammond, and members of his staff.

A. The scope of the inspection. (Paragraph 2, Report Details)

3/ Ibid.

- B. The review of Iowa Electric's corrective actions to the previous emergency planning inspection^{4/} as specified in the licensee's responses dated January 6 and 20, 1976. (Paragraphs 3, 4 and 5, Report Details)

4/ Ibid.

REPORT DETAILS

1. Personnel Contacted

E. Hammond, Assistant Chief Engineer
D. Wilson, Technical Engineer
K. Young, Radiation Protection Engineer
B. Johnson, Plant Chemist

2. General

The inspection consisted of an examination of the Iowa Electric Light and Power Company corrective action responses^{5/6/} to:
(1) two items of noncompliance, (2) two deviations to licensee commitments; and (3) two other significant items noted during the previous emergency planning inspection.^{7/}

In addition, gaseous waste confirmatory measurement samples were obtained for comparative analysis. The results of the comparative analysis are to be examined at a subsequent inspection.

3. Action on Items of Noncompliance from the Previous Inspection^{8/}

a. Infraction

Contrary to DAEC Technical Specification 6.8.4 selected drills of emergency procedures were not conducted in accordance with the provisions of the Preparedness Plan. Drills were not conducted for the first and third quarters of 1975.

Action

The inspector reviewed licensee records and documentation, and determined the fourth quarter, 1975, and first quarter 1976, drills were conducted as specified in the Preparedness Plan. The inspector has no further questions regarding this item at this time.

b. Deficiency

Contrary to DAEC Technical Specification 6.8.1.7 during the May 29, 1975, site emergency drill, Preparedness Plan Implementation Procedure No. PPIP-16, requiring all drill observers to record and document drill observations, was not followed.

^{5/} J. A. Wallace to J. G. Keppler, dated 1/6/76.

^{6/} J. A. Wallace to J. G. Keppler, dated 1/20/76.

^{7/} Op.Cit., IE Rpt No. 050-331/75-19.

^{8/} Ibid.

Action

The inspector reviewed the licensee drill observer reinstruction program dated December 31, 1975. The inspector determined the licensee corrective action precluded recurrence of this item of noncompliance during the fourth quarter, 1975, and first quarter, 1976, drills. The inspector has no further questions regarding this item at this time.

4. Action on Deviations Identified in the Previous Inspection^{9/}

a. Letters of Agreement with Offsite Agencies

DAEC Preparedness Plan sections 7.1, 7.4, 7.7, 7.11 and 11.1 state that liaison will be continuously maintained with specified state and local agencies responsible for public safety. Letters of Agreement were not received from the Cedar Rapids Fire Department and the Environmental Protection Agency (EPA). Letters of Agreement, which are presently out of date, were noted for the Palo Fire Department and ERDA.

Action

The inspector reviewed current letters of agreement on file with the licensee. The inspector noted the licensee has received current letters of agreement from ERDA, the Palo Fire Department, and EPA. The inspector noted the Palo Fire Department letter of agreement also specified that the Palo Fire Department has a current assistance agreement with the Cedar Rapids Fire Department. Licensee personnel stated the Cedar Rapids assistance agreement with Palo constituted the only agreement the Cedar Rapids Fire Department could presently offer since Palo, Iowa, is outside the Cedar Rapids Fire Department jurisdiction. The inspector has no further questions regarding this item.

b. Annual Review of the Preparedness Plan

Contrary to the commitment of DAEC Preparedness Plan section 11.1, no annual reviews of the Preparedness Plan have been conducted since 1972.

Action

The inspector reviewed licensee documentation pertaining to the December, 1975, annual Preparedness Plan review. Licensee personnel stated the 1976 annual review, and all subsequent annual reviews, would be conducted after the general emergency exercise. The 1976 general emergency exercise is presently scheduled to be conducted during the second quarter of 1976. This item will be reviewed at a subsequent inspection.

^{9/} Ibid.

5. Action on Significant Items Identified in the Previous Inspection^{10/}

a. Alternate Emergency Control Center (AECC)

The commitment to provide to NRC by June 1, 1974, a review and evaluation of the AECC was met on May 26, 1974. The licensee stated at that time that the final plan should be completed by July 1, 1974. A review of the authorized work orders indicated the plan was approved January 1, 1975. At the time of this inspection, the work on the AECC had not been completed. A completion date, when the AECC will be fully operational, has not been established by the licensee.

Action

The licensee established May 1, 1976, as the AECC completion date in the licensee's response dated January 20, 1976. The inspector examined the facility on April 29, 1976, and determined it is equipped and located as specified in the Preparedness Plan. The inspector has no further questions regarding this item at this time.

b. Public Address, Fire and Evacuation Alarm Systems

The licensee conducted system audibility evaluations which concluded that the PA system, and evacuation/fire alarms are audible during plant operation. However, during the May 29, 1975, evacuation drill, several employees and subcontractor personnel stated that the PA system and the evacuation alarm were inaudible or not understandable at various work locations in the plant. Although the employee's and subcontracted personnel's comments were noted by the licensee during the drill critique, there has been no subsequent action by the licensee.

Action

During the December 19, 1975, quarterly drill, several employees and subcontractor personnel again indicated an inability to hear the PA system and evacuation alarm at various work locations in the plant. During the licensee's subsequent drill critique, maintenance action requests (MAR) were initiated to install or modify PA and evacuation alarm systems in the problem areas. The inspector determined the licensee is in the process of completing the MAR's. This item will be reviewed during a subsequent inspection.

^{10/} Ibid.