

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

REGION III

Report No. 50-331/80-22

Docket No. 50-331

License No. DPR-49

Licensee: Iowa Electric Light and Power Company  
Post Office Box 351  
Cedar Rapids, IA 52406

Facility Name: Duane Arnold Energy Center

Inspection At: Duane Arnold Energy Center, Palo, Iowa

Inspection Conducted: November 1-30, 1980

Inspectors: *[Signature]* W. F. Christianson

12/12/80

*[Signature]* L. S. Clardy

12/12/80

Approved By: *[Signature]* W. S. Little, Chief  
Projects Section 2

12/12/80

Inspection Summary

Inspection on November 1-30, 1980 (Report No. 50-331/80-22)

Areas Inspected: Routine, inspections review and observations of plant operations and maintenance, procedures, documentation and work performed. The inspection involved 119 inspection-hours onsite by two NRC inspectors including 14 inspector-hours onsite during off-shifts.

Results: Of the areas inspected, no items of noncompliance were identified.

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## DETAILS

### 1. Persons Contacted

#### Iowa Electric Light and Power Company (IE)

- \*D. Mineck, Chief Engineer
- \*J. VanSickel, Technical Engineer
- \*D. Wilson, Assistant Chief Engineer Technical
- \*B. York, Assistant Chief Engineer Operations
- \*D. Teply, Operations Supervisor
- \*C. Mick, Assistant Operations Supervisor
- \*J. VinQuest, Maintenance Supervisor

In addition, the inspectors interviewed several other licensee personnel including shift supervising engineers, control room operators, engineering personnel, administrative personnel, and contractor personnel (representing the licensee).

\*Denotes those contacted at the exit interview.

### 2. Operational Safety Verification

The inspector observed control room operations, reviewed applicable logs and conducted discussions with control room operators during the month of November. The inspector verified the operability of selected emergency systems, reviewed tagout records and verified proper return to service of affected components. Tours of the reactor building and turbine building were conducted to observe plant equipment conditions, including potential fire hazards, fluid leaks, and excessive vibrations and to verify that maintenance requests had been initiated for equipment in need of maintenance. The inspector by observation and direct interview verified that the physical security plan was being implemented in accordance with the station security plan.

The inspector observed plant housekeeping/cleanliness conditions and verified implementation of radiation protection controls. During the month of November, the inspector walked down the accessible portions of the Automatic Depressurization and Recirculation systems to verify operability. The inspector also witnessed portions of the radioactive waste system controls associated with radwaste shipments and barreling.

These reviews and observations were conducted to verify that facility operations were in conformance with the requirements established under technical specifications, 10 CFR, and administrative procedures.

No items of noncompliance were identified.

### 3. Monthly Maintenance Observation

Station maintenance activities of safety related systems and components listed below were observed or reviewed to ascertain that they were conducted in accordance with approved procedures, regulatory guides and industry codes or standards and in conformance with technical specifications.

The following items were considered during this review: the limiting conditions for operation were met while components or systems were removed from service; approvals were obtained prior to initiating the work; activities were accomplished using approved procedures and were inspected as applicable; functional testing and/or calibrations were performed prior to returning components or systems to service; quality control records were maintained; activities were accomplished by qualified personnel; parts and materials used were properly certified; radiological controls were implemented; and, fire prevention controls were implemented.

Work requests were reviewed to determine status of outstanding jobs and to assure that priority is assigned to safety related equipment maintenance which may affect system performance.

The following maintenance activities were observed/reviewed:

"A" recirculation pump seal replacement.  
ADS pilot valve 440S replacement  
Design change request 907, and 918 incorporating  
diverse containment isolation signals.

Following completion of maintenance on the "A" recirculation pump, and the Automatic Depressurization systems, the inspector verified that these systems had been returned to service properly.

No items of noncompliance were identified.

### 4. Monthly Surveillance Observation

The inspector observed technical specifications required surveillance testing on the Low Pressure Coolant Injection System and verified that testing was performed in accordance with adequate procedures, that test instrumentation was calibrated, that limiting conditions for operation were met, that removal and restoration of the affected components were accomplished, that test results conformed with technical specifications and procedure requirements and were reviewed by personnel other than the individual directing the test, and that any deficiencies identified during the testing were properly reviewed and resolved by appropriate management personnel.

The inspector also witnessed portions of the following test activities: Reactor High Pressure Recirculation Trips and APRM High Flux and Inoperative Trips.

No items of noncompliance were identified.

5. Physical Protection Compensatory Measures

The inspector verified that the licensee took the proper compensatory measures for an incident which damaged the vital area security fence.

No items of noncompliance were identified.

6. Followup on Headquarters Reports

The inspector verified that all Category "A" TMI Action Plan requirements had been implemented within the time period that the licensee committed to with the exception of item I.A.1.2. This was previously documented in inspection report 80-18.

The inspector completed the questionnaires on Storage of Solid Radioactive Waste and Susceptibility to Indian Point No. 2 Flooding Events. The information was forwarded to NRR.

No items of noncompliance were identified.

7. Systematic Assisment of Licensee Performance

The inspector assisted in compilation of data and participated in the SALP meetings.

No items of noncompliance were identified.

8. Violations Identified By The Licensee

The licensee identified and reported (LER No. 80-053) that the monthly surveillance test of the turbine control valve fast closure and recirculation pump trip initiation logics were not tested in October 1980. The inspector will review this LER in a later inspection.

9. Exit Interview

Due to the length of the inspection and the diversity of areas inspected, the exit interviews were conducted on a weekly basis between the NRC inspectors and the appropriate licensee personnel.

In each case the scope and findings of the individual inspection areas were summarized.