



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

MAY 18 1977

Docket No. 50-331

Iowa Electric Light and Power  
Company  
ATTN: Mr. Duane Arnold  
President  
IE Towers  
Post Office Box 351  
Cedar Rapids, IA 52406

Gentlemen:

This refers to the inspection conducted by Mr. E. W. K. Lee of this office on May 4 and 5, 1977, of activities at the Duane Arnold Energy Center authorized by NRC Operating License No. DPR-49 and to the discussion of our findings with Mr. D. Mineck and other members 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 during the course 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

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MAY 18 1977

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

Sincerely,

R. F. Heishman, Chief  
Reactor Construction and  
Engineering Support Branch

Enclosure: IE Inspection  
Report No. 50-331/77-08

cc w/encl:

Mr. E. L. Hammond, Chief  
Engineer

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PDR

Local PDR

NSIC

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OFFICE ➤	RIII	RIII	RIII	RIII		
SURNAME ➤	Lee/bk <i>EL</i>	<i>Jordan</i>	<i>Heishman</i>	<i>Kister</i>		
DATE ➤	5/17/77		<i>5/17</i>			

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

REGION III

Report No. 50-331/77-08

Docket No. 50-331

License No. DPR-49

Licensee: Iowa Electric Light and Power Company  
IE Towers  
P.O. Box 351  
Cedar Rapids, IA 52406

Facility Name: Duane Arnold Energy Center

Inspection at: Duane Arnold Site, Palo, IA

Inspection conducted: May 4 and 5, 1977

Inspector: E. W. K. Lee *Ed. W. K. Lee*

5/17/77  
date signed

Approved By: *E. L. Jordan*  
E. L. Jordan, Chief  
Engineering Support Section

5/17/77  
date signed

Inspection Summary

Inspection on May 4 and 5, 1977 (Report No. 50-331/77-08)

Areas Inspected: Special, announced inspection of records relative to the modification of main steam safety relief valve piping. The inspection involved 7 onsite inspection hours by one NRC inspector.

Results: Of the area inspected, no items of noncompliance or deviations were found.

## DETAILS

### Persons Contacted

#### Principal Licensee Employees

\*J. H. Gebert, Maintenance Supervisor  
\*K. V. Harrington, Supervising Engineer, Construction  
\*D. L. Mineck, Assistant Chief Engineer  
\*R. Rockhill, Mechanical Supervisor  
\*R. R. Rinderman, Site Quality Supervisor  
H. Shearer, Project Engineer

\* denotes those present at the exit interview.

#### Functional or Program Areas Inspected

1. Review of documents relative to modification of Main Steam Safety Relief Valve Piping

The inspector reviewed Design Change Request No. 670A, welding procedure, welders qualification, welding checklist, welding rod withdrawal authorization, RT films and RT examiner qualification for the pipe to flange welds on the main steam safety relief valves No. PSV-4401, No. PSV-4407, No. PSV-4402, No. PSV-4405, No. PSV-4400 and No. PSV-4406. The inspector determined that the records met the code and procedure requirements, except that proper interpretation of the RT films appear to be questionable due to the roughness of some weld surfaces.

2. Review of Main Steam Safety Relief Valve Documents

The inspector reviewed test reports, product quality certifications and receiving/inspection reports for the safety relief valves with Serials No. 226, No. 218, No. 189, No. 199, No. 176 and No. 227. The inspector determined that the records were in accordance with the applicable requirements. The inspector has no further questions on this matter.

#### Exit Interview

The inspector met with the licensee representatives at the conclusion of the inspection on May 5, 1977. The inspector summarized the scope and findings of the inspection.

The inspector stated that RIII has been advised by IE that the matter relative to the licensee's designated NDE level III examiner performing NDT examination and evaluating the results meets ASNT-TC-IA and ASME code requirements, we therefore have no further questions on this matter.

The inspector stated that he reviewed the RT film of the final weld repair on the loop A 4" recirculation bypass line. The inspector stated that the concavity indicated on the film appears to be within the code allowable, however, density reading of the film would provide more visibility of accepting the weld.

After the inspection and exit interview, on May 5, 1977, several telephone conversations between RIII and the licensee on the matters described in paragraph 1 and the 4" recirculation bypass line weld repair were conducted. The licensee stated that the RT films of the pipe to flange welds on the main steam safety relief valves have been re-evaluated by the designated level III examiner and established that the films can be properly interpreted, furthermore, the authorized Inspector concurred and accepted the welds. Relative to the 4" recirculation bypass line, the licensee stated that density of the film were measured and found acceptable. The inspector stated that he has no further questions on these matters.