

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

REGION III

Report No. 50-461/80-12

Docket No. 50-461

License No. CPPR-137

Licensee: Illinois Power Company  
500 South 27th Street  
Decatur, IL 62525

Facility Name: Clinton Power Station, Unit 1

Inspection At: Clinton Site, Clinton, IL

Inspection Conducted: June 2-6, and 23-27, 1980

Inspector: H. H. Livermore *RC Knopf*

7/15/80

Approved By: R. C. Knop, Chief  
Projects Section 1 *RC Knop*

7/15/80

Inspection Summary

Inspection on June 2-6, and 23-27, 1980 (Report No. 50-461/80-12)

Areas Inspected: Routine inspection by the IE Regional Resident Inspector (SRI) of safety related construction activities including concrete placement, material laydown and storage areas, and welder qualifications. This inspection involved 50 inspector-hours by one NRC inspector.

Results: No items of noncompliance or deviations were identified.

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## DETAILS

### Persons Contacted

#### Principal Licensee Employees

- \*G. M. Brashear, Site Manager, Clinton
- \*R. J. Canfield, Director-Construction
- \*A. J. Budnick, Director-QA
- \*E. E. Connon, Assistant Director-Construction
- \*L. W. Dozier, Assistant Director-Construction
- \*D. E. Korneman, Supervisor-Construction
- \*J. F. Hampton, Supervisor-QA
- \*R. A. Folck, QA Specialist
- \*J. S. Spencer, Engineering
  - R. Backen, QA Specialist
  - R. Weber, QA Engineer
  - R. Becker, QA Consultant
- \*L. J. Koch, Vice President

#### Baldwin Associates

- J. R. Hilding, QA Manager
- \*R. Selva, Manager Quality and Technical Services
- \*J. Linchan, QC Manager
- \*W. H. Harrington, Project Manager
- \*J. E. Findley, Project Engineer
- \*T. F. Walker, Senior Quality Control
- \*R. D. Bennett, Manager, Technical Services
- \*J. Smart, Acting QA Manager

The inspector also contacted and interviewed other licensee and contractor personnel.

\*Denotes those attending an exit meeting.

#### Functional or Program Areas Inspected

##### 1. Plant Tours

One or more plant areas were toured several times each week during the reporting period to observe general construction practices, area cleanliness, and storage/maintenance of material and equipment.

No items of noncompliance or deviations were identified.

##### 2. Concrete Placement

The inspector performed surveillance of containment upper fuel pool wall pours CT1W13-4A&B, CTS 9-1, AND CTW 13-2A, a total of approximately 600 yards of concrete.

The following conditions were noted by inspection:

- a. Forms were secure and appreciably leak tight.
- b. Preplacement inspections were performed and acceptable.
- c. QC inspectors were assigned for pour surveillance. Their activities and number were adequate.
- d. Concrete test personnel were adequate and performed their test functions correctly and at the proper frequencies.
- e. Delivery and placement of concrete was satisfactory. The inspector performed a surveillance of the batch plant operational supply and at the truck to chute. Concrete was pumped to the placement area and deposited via a flexible boot which adequately confined the concrete to a minimum fall to prevent segregation.
- f. Concrete was observed to be properly consolidated using internal concrete vibrators. The vibrators were randomly checked while operating in the concrete. Vibrator technique was satisfactory.

No items of noncompliance or deviations were identified.

3. Inspection of Material Storage Areas

The inspector toured material storage areas in the power block several times each week. Numerous pieces of safety related electrical cable trays and hangers were observed on the floor in water on the 762' Auxiliary Building. The inspector also noted safety related embeds mixed in with trash and scrap outside the power block southwest entrance. The licensee and contractor were verbally notified of the inspector's findings. The contractor took immediate action on the aforementioned items. A followup surveillance indicated proper storage and an improved awareness of storage responsibilities.

4. Welder Qualification

The inspector performed a surveillance tour of the contractor's (Baldwin) welder qualification test operation and records. General information interviews were held with the foreman and instructor. The operation was satisfactory and appeared to be well run.

The inspector reviewed the qualification records of 28 pipefitter welders. The 13STF-050 Qualification Test Forms were reviewed in conjunction with test shack JV216 forms and radiographic test result (RR) records. Ten of the 28 dates did not agree by one day. It appeared that ten welders were qualified per BSTF 050 and issued stamps to weld one day prior to acceptance of their test weld radiographic exam results. Instructions by the inspector and the Baldwin Tech Services found that problem was one of paperwork coordination.

The final radiographic qualification results were not going directly to the final welder qualification BSTF 050 forms. Qualification dates were corrected.

No items of noncompliance or deviations were identified.

5. Procedures

A previous surveillance by the inspector noted the need of preheat instructions in the Zack HVAC welding procedure. This requirement by AWS D1.1 Welding Code was relayed to the licensee and contractor. Zack weld procedure QCP 24 Revision 5 has been released incorporating the AWS D1.1 preheat requirements.

A procedure change review by the inspector noted a disparity between ANSI N45.2.5 and the contractor structural steel erection procedure. The licensee QA was notified and took action to void the procedure change. Approximately 50-100 bolts in containment did not have sufficient thread engagement to meet ANSI N45.2.5 thread protrusion requirements. The procedure change would have relaxed ANSI N45.2.5 requirements to an AISC Specification interpretation. The contractor has revised procedure BAP 3.1.3 per change request 68-80 to agree with the requirements of ANSI N45.2.5, paragraph 5.4, #1. The containment bolts will be changed out to meet the requirements. Timely review and action prevented violation of an ANSI requirement.

No items of noncompliance or deviations were identified.

Unresolved Matters

Unresolved matters are items about which more information is required in order to ascertain whether they are acceptable items, items of noncompliance, or deviations. There are no unresolved items.

Exit Meeting

The resident inspector attended an exit meeting conducted by the RIII Inspectors Neisler, Wescott, and Lee on June 27, 1980. The inspector met with the licensee representatives (denoted under Persons Contacted) on June 6 and 27, 1980. The inspector summarized the scope and findings of the inspection performed. The licensee representatives acknowledged the findings reported in previous paragraphs.

Attachments: Preliminary  
Inspection Findings

PRELIMINARY INSPECTION FINDINGS

1. LICENSEE

Illinois Power

2. REGIONAL OFFICE

III  
Resident

3. DOCKET NUMBERS

50-461

4. LICENSE NUMBERS

CPR-137

5. DATE OF INSPECTION

6/2 - 6/80

6. Within the scope of the inspection, no items of noncompliance or deviation were found.

7. The following matters are preliminary inspection findings:

8. These preliminary inspection findings will be reviewed by NRC Supervision/Management at the Region III Office and they will correspond with you concerning any enforcement action.

*A. Lawrence*  
Nuclear Regulatory Commission Inspector

6/6/80

PRELIMINARY INSPECTION FINDINGS

1. LICENSEE

Illinois Power

2. REGIONAL OFFICE

III  
Resident

3. DOCKET NUMBERS

50-461

4. LICENSE NUMBERS

CPYR-137

5. DATE OF INSPECTION

6/23-27/80

6. Within the scope of the inspection, no items of noncompliance or deviation were found.

7. The following matters are preliminary inspection findings:

8. These preliminary inspection findings will be reviewed by NRC Supervision/ Management at the Region III Office and they will correspond with you concerning any enforcement action.

*H. Auer*  
Nuclear Regulatory Commission Inspector

6/27/80