

U.S. NUCLEAR REGULATORY COMMISSION

REGION III

Report No. 50-461/82-08(DPRP)

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 1 through July 31, 1982

Inspector: *H. H. Livermore*
H. H. Livermore
Senior Resident Inspector

9/30/82

Approved By: *D. W. Hayes*
D. W. Hayes, Chief
Reactor Projects Section 1B

9/30/82

Inspection Summary

Inspection on June 1 through July 31, 1982 (Report No. 50-461/82-08(DPRP))

Areas Inspected: Routine safety, resident inspector inspection of construction activities including material laydown and storage areas, pipe and structural welding, program control and numerous stop work recovery activities. The inspection involved a total of 114 inspector-hours onsite by one NRC inspector, including seven inspector-hours onsite during off-shifts.

Results: Of the areas inspected no items of noncompliance or deviations were identified for this report.

DETAILS

1. Persons Contacted

Principle Licensee Employees

*W. C. Gerstner, Executive Vice President
*J. O. McHood, Vice President, Project Manager
*R. J. Canfield, Director, Construction
*A. J. Budnick, Director, QA
*E. E. Connon, Director, Compliance
J. S. Spencer, Director, Design Engineering NSED
*W. L. Calhoun, Electrical Construction Supervisor
B. Spicer, QA Engineer
G. N. Motsegood, Engineering Supervisor, Construction
R. Morgenstern, Station QA Engineer
L. Brodsky, Assistant Plant Manager
*R. Weber, Station QA Engineer
*R. Campbell, Supervisor, Programs and Procedures
D. E. Korneman, Assistant Director, Construction
*L. J. Koch, Vice President, Engineering and Licensing
*G. W. Bell, Supervisor, Audit and Surveillance

Baldwin Associates

*J. W. Smart, QA Manager
J. E. Findley, Manager, Quality and Technical Services
*W. J. Harrington, Project Manager and Vice President
*H. R. Swift, Project Engineer
*G. Chapman, Manager, Technical Services
*T. Yearick, Assistant Project Manager
*D. R. Murphy, Sr., Electrical Engineer
P. Bryant, Assistant Manager, Quality and Technical Services
*H. J. Harris, Assistant Project Engineer

Authorized Nuclear Inspection (ANI)

*M. L. Tracey, CPS ANI
L. Malabanon, CPS ANI

Other staff and personnel were contacted during the reporting period.

*Denotes those attending at least one of the exit meetings.

2. Functional or Program Areas Inspected

a. Site Surveillance Tours

At periodic intervals during the report period, surveillance tours of areas of the site were performed. These surveillances are intended to assess: the cleanliness of the site; the storage and maintenance conditions of equipment and material being used in site construction; the potential for fire or other hazards which might

have a deleterious effect on personnel and equipment; and to witness construction activities in progress. In general the storage and maintenance of safety related material and equipment appears to have improved throughout the laydown areas and the Power Block.

No items of noncompliance or deviation were identified.

b. Welding Activities

During the reporting period, the inspector observed welding activities associated with electrical hangers on the 762 level of the Fuel Building, structural attachments in Containment, and piping of the Control Room HVAC. For each of the welds examined, one or more of the following activities was observed. Handling and protection of piping and partially completed welds was satisfactory. Shielding and purge gas was correctly used when applicable. The weld area was free of contaminants. The fitup dimensions were within procedural requirements and the welders were certified as qualified for the thickness and the process specified to be used for welding the joints. Technique and weld results appeared to be satisfactory.

No items of noncompliance or deviation were identified.

c. Program Control

At periodic intervals, the NRC inspector reviewed Nonconformance Reports (NCRs) Discrepancy Reports (DRs), Field Change Requests (FCRs), Sargent and Lundy Specification Revisions, FSAR Amendments, Constructor Audit Reports, Construction Procedure Revisions, Licensee Quality Procedures, Trend Analysis, Licensee Surveillance Reports, Findings, Audits, and plant problems identified by Corrective Action Requests (CARs), and other means. Numerous informal comments were forwarded to the licensee and constructor for action and/or discussion. The NRC inspector attended numerous status and/or problem discussion meetings with the licensee and constructor.

No items of noncompliance or deviation were identified.

d. Potential Problem Identification

The following item was forwarded to the licensee for information and "followthrough" action. The item consists of generic problem information obtained by the NRC from other power reactors. The NRC inspector explained that the information may identify a potential problem of a similar nature at Clinton. The licensee is requested to investigate the problem, determine its applicability, and denote action to be taken.

Bullet Resistant Fire Doors at Kewaunee had not been tested and approved by a nationally recognized laboratory. The item was reported to the NRC as a 10 CFR Part 21 report.

This is Open Item 50-461/82-08-01.

3. Allegations and Investigations

a. Waterdousing of Quality Control Inspectors

The licensee reported that two civil/structural quality control (QC) inspectors with Baldwin Associates, the plant constructor, were doused with water on June 24, 1982, while working in the Containment Building. The inspectors reported that unknown individuals above them poured water from hard hats through a floor grating. The QC inspectors said they were splashed by the water, but were not hit directly. They believe that at least two water dousings were attempted. The incident followed the announcement by the licensee on June 23, 1982, that 500 of the 2,000 craft employees onsite would be laid off effective June 25, 1982, as a result of six stop work orders initiated by the company. As a result of the dousing, the licensee met with all craft supervisors on June 25, 1982, to discuss the consequences of employee intimidation of inspectors. The supervisors, in turn, held "tool box" meetings with workmen to point out that intimidating an inspector would result in immediate dismissal of the perpetrator, and, in addition violates federal law. All workers were given copies of Section 235 of the Atomic Energy Act of 1954. The Baldwin Associates hired a private firm to investigate the water dousing incident. Conclusion: Although the water that came down around the QC inspectors was not accidental, it was not intended for them. It was the opinion of the investigator that there was a complete absence of any intent to intimidate, harass, or interfere with the QC inspectors while in performance of their duties. Both QC inspectors involved in the water dousing were interviewed by the NRC inspector. Both stated they agreed with the facts stated in the investigator's report, and that they were not intimidated, impeded, blocked, or interfered with in regard to completing their inspections. Initially the QC inspectors felt they were singled out for water dousing. After reviewing the facts, and going over the area and noting the number of dousings, both QC inspectors felt they just happened to be in an area of numerous water dousings and excessive horseplay.

The NRC inspector considers the matter closed with no further action planned. Region III management concurs with this action.

4. Meetings and Site Visits

- a. On June 8, 1982, the NRC inspector presented the observations and findings of the NRC Systematic Assessment of Licensee Performance (SALP) Board for the Clinton Nuclear Generating Station. The evaluation of Illinois Power's performance was for the period of July 1, 1981 to September 30, 1981. Performance ratings and evaluations details are presented in SALP Report 50-461/82-11.

- b. A management meeting was held with corporate officers and staff of the Illinois Power Company at the NRC Region III office in Glen Ellyn, Illinois on July 12, 1982. The purpose of the meeting was to discuss the existing stop work recovery plans and proposals with respect to continuing construction work activities at the Clinton Power Station. Details are provided in NRC Report 50-461/82-12.

5. Stop Work Chronology

A summation of the past electrical stop work events was presented in NRC Report No. 50-461/82-05. Subsequent to the management conference of May 28, 1982, more controlled step by step submittals of electrical travelers were attempted by the Licensee. The NRC inspector and Region III management rejected the submittals based on the following:

- a. Failure to perform a construction verification prior to inspection.
- b. Failure to perform reviews of surveillance reports and document nonconforming conditions.
- c. Failure to provide electrical cable protection training to craft workers below the grade of Foreman.
- d. Work performed in violation of Electrical Stop Work 007.

All of the aforementioned were commitments to the NRC as part of recovery from Electrical Stop Work 007. The licensee issued Corrective Action Requests (CAR)096 and 097 and Management Corrective Action Request (MCAR)003 to remedy the situation. Details can be found in NRC Inspection Report No. 50-461/82-10.

In parallel with the Electrical Stop Work recovery effort, numerous other major problems were surfacing: Structural Steel bolting deficiencies; Heating, Ventilating, and Air Conditioning (HVAC) "as-built" and inspection practice deficiencies; welding deficiencies in the Refueling Bellows and In-Vessel Fuel Racks; lack of timely inspection of work travelers by QC; and an ever increasing trend that construction rejects were repetitious and multiplying in numbers.

The NRC inspector expressed serious concerns to Region III management on June 15, 1982, that the quality organizations were unable to keep up and contend with the ever-increasing number and seriousness of the problems being identified. These concerns were transmitted to the licensee by Region III Management. Subsequently, all craft work on site was halted for a period of time while Quality tracked down all work travelers as a means of establishing a control baseline. On June 23, 1982, the Constructor issued six (6) Stop Work(s) in the following areas: HVAC; Structural Steel; Electrical Equipment; Electrical Instrumentation; and all new Electrical Conduit Work except Containment. The Conduit Stop Work was expanded to include all areas of containment and another Stop Work was added to HVAC (total of 3). At the Management meeting with

Illinois Power and the NRC held on July 12, 1982, a discussion included existing stop work recovery plans and proposals with respect to continuation of construction. Details are noted in NRC Report No. 50-461/82-12. As of July 30, 1982, all ten Stop Work(s) remain in effect. Construction continues with pipe installation and electrical hangers.

6. Exit Meetings

The NRC inspector attended an exit meeting conducted by Region III inspectors K. Ward and R. Love on June 9 and July 30, respectively. The NRC inspector met with the Licensee representatives (denoted under Persons Contacted) on June 25 and July 30, 1982. The NRC inspector summarized the scope and findings of the inspections performed.