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

REGION III

Report No. 50-456/79-03; 50-457/79-03

Docket No. 50-456; 50-457 License No. CPPR-132; CPPR-133

Licensee: Commonwealth Edison Company
P. O. Box 767
Chicago, IL 60690

Facility Name: Braidwood Nuclear Power Station, Unit 1 and 2

Inspection At: Braidwood Site, Braceville, Illinois

Inspection Conducted: March 13-15, 1979

Inspector: C. E. Jones — C E Jones — 4-3-79

Approved By: R. C. Knop, Chief, Projects Section — B Darnell for — 4/4/79

Inspection Summary

Inspection on March 13-15, 1979 (Report No. 50-456/79-03; 50-457/79-03)
Areas Inspected: Status of electrical contractors and respective QA/QC Programs; status of construction and Nuclear Steam Supply System components. Review and resolution of previously identified items of noncompliance, unresolved items and open items. Review of revisions to the Gust K. Newberg, Associates, and Phillips Getchow Company Quality Assurance Manuals. The inspection involved 24 inspector-hours onsite by one NRC inspector.
Results: No items of noncompliance were observed.

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DETAILS

Persons Contacted

Principal Licensee Personnel

*R. Cosaro, Site Project Engineer
*J. T. Merwin, Lead Mechanical Engineer
*J. W. Schlunz, Lead Structural Field Engineer
*R. J. Farr, QA Engineer
*S. L. Giaconis, QA Engineer

*Denotes those present at the exit interview.

Licensee Action on Previous Inspection Findings

(Closed) Unresolved Item (IE Reports No. 456/76-02; 457/76-02): Revisions to the Gust K. Newberg and Associates (GKNA) QA Manual by the end of March, 1976. The manual was reviewed by an NRC inspector and the results documented in IE Inspection Report No. 456/77-03 and 457/77-03. The unresolved items referenced previously were not all included in the manual. The inspector reviewed the QAM, specifically those items not included in the previous review, and determined all items had been adequately resolved.

(Closed) Unresolved Item (IE Report No. 456/76-05; 457/76-05): Concerns lack of definitions of terms or control of measuring and test equipment. There were four items listed and these will be addressed as documented.

1. The definition of "certificate of compliance" is included in the revised QAM list of defined terms.

2. Section 12 of the QAM was revised to more clearly define calibration and the documentation required to satisfy 10 CFR 50, Appendix B.

3. Section 18.5 concerns "Audits." Copies of each audit report are distributed to the QA administrator, parties involved in the audit and to the General Manager. The General Manager has developed criteria for the approval of an audit. If the audit fails to meet his criteria, he requests a reaudit. The QA supervisor monitors the action required by an audit to assure the problem is resolved.

4. Section 18.7 of the GKNA, QAM has been revised to include the requirements of a management audit. The manual informs the reader this audit is normally performed twice a year by a Consultant.

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(Closed) Unresolved Item (IE Report No. 456/76-05; 457/76-05): Failure by (P-G) to maintain calibration and marking of welding devices. This item was reviewed during the inspection of September 29-30, 1976, IE Report No. 456/76-06; 457/76-06, and found to be acceptable.

(Closed) Item of Noncompliance (IE Inspection Report No. 456/76-06; 457/76-06): Pressure gauges used by CB&I for leak channel tests were not calibrated in accordance with procedural requirements. The inspector reviewed a revised procedure approved June 15, 1977, and found the revised procedure adequate.

(Closed) Item of Noncompliance (IE Inspection Report No. 456/76-07; 457/76-07): Incomplete qualification and training records were maintained for inspection personnel. The inspector reviewed a response by letter from (P-G) dated December 20, 1976, that included an approved procedure as Attachment A. The procedure was considered adequate and was placed in service on January 13, 1977.

(Closed) Deficiency (IE Report No. 456/76-07; 457/76-07): Inadequate visual acuity test reports were maintained by CB&I for their inspection personnel. The requirements for visual acuity tests and reports were reviewed further and it was determined CB&I was meeting requirements. The licensee has placed the review of these records in his surveillance program. Color vision tests had been performed in November, 1977, and March, 1978. The licensee's Surveillance Report No. 844 on August 8, 1978, confirmed the tests were being performed and recorded.

(Closed) Item of Noncompliance (IE Report No. 456/77-03; 457/77-03): Weld rod material not controlled in accordance with welding procedure. (P-G) supervision destroyed the weld rod that had been left in the portable ovens. At CECo's request P-G reinstructed the appropriate personnel in their weld rod control procedure. This item has also been added to the CECo Surveillance Program and the surveillances have failed to indicate further breakdown in this type of weld rod control.

Functional or Program Areas Inspected

1. Status of Electrical Contractors

The status of the electrical contractors was reported to be as follows:

a. E. C. Ernst has vacated the site completely.

b. L. K. Comstock has assumed the major electrical contract and replaced Ernst. Comstock is using certain Ernst QA procedures jointly approved with CECo. Comstock plans to use several

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of the Ernst QA procedures revised to conform to Company Program and approved by the licensee. Comstock has retained essentially all of the Ernst employees except a few office personnel. The transition appears to be progressing smoothly. The QA Program is scheduled to be reviewed by RIII as early as the new program is in place. This should occur about mid April.

c. Clennon Electric, Incorporated - This company was reported to be small and was brought on site on an interim basis during the change in major contractors to do non-safety related work. Although they have a QA Program, it has not been reviewed by the NRC.

2. Status of Construction

A brief summary of the plant construction is as follows:

a. Construction completion, approximately 48% for Unit 1 and 37% for Unit 2.

b. Reactor pressure vessel, Unit 1, set scheduled for early April.

c. Post tensioning scheduled to start late this summer.

d. Control panel placement in control room scheduled for April.

e. Class 1 pipe installation scheduled to follow reactor pressure vessel set.

f. Cold hydrostatic test scheduled for June, 1980. This is reported to be an ambitious schedule. Approximately 3200 pipe spools have been installed; approximately 6500 are required for cold hydro.

3. Contractor's QA Manuals

Reviewed the Phillip Getchow and Gust K. Newberg QA Manuals for major or significant changes. None were observed. Newberg is preparing a new or revised manual but the inspector was assured it would not be used on the Braidwood site.

Exit Interview

The inspector met with the staff representatives (denoted in the Persons Contacted paragraph) at the conclusion of the inspection on March 15, 1979. The inspector summarized the scope and findings of the inspection. The licensee acknowledged the findings.

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