

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

REGION III

Reports No. 50-456/81-03; 50-457/81-03

Docket Nos. 50-456; 50-457

Licenses No. CPPR-132; CPPR-133

Licensee: Commonwealth Edison Company
Post Office Box 767
Chicago, IL 60690

Facility Name: Braidwood Station, Units 1 and 2

Inspection At: Braidwood Site, Braidwood, IL

Inspection Conducted: March 9-11, 1981

Inspectors: R. B. Landsman

R.B. Landsman

3-24-81

J. M. Boone

J.M. Boone

3-24-81

Approved By: C. C. Williams, Chief
Plant Systems Section

C.C. Williams

3-24-81

Inspection Summary

Inspection on March 9-11, 1981 (Report No. 50-456/81-03; 50-457/81-03)

Areas Inspected: Containment prestressing system work activities, procedures, and quality records. The inspection involved 33 inspector-hours onsite by two NRC inspectors.

Results: No items of noncompliance or deviations were identified in the areas inspected.

DETAILS

Persons Contacted

Commonwealth Edison Company

- *R. Casaro, Site Project Superintendent
- *T. Sommerfield, Site QA Supervisor
- *C. Gray, Lead Structural Engineer
- *S. Hunsader, QA Inspector
- *W. Bruns, QA Inspector

Newberg

J. Patten, QC Level II Inspector

Napoleon Steel

C. Zavada, QC Manager

*Denotes those in attendance at exit meeting.

Program Areas Inspected

During this inspection the containment prestressing system procedures, work activities, and quality records were reviewed for Units 1 and 2.

1. Procedures

The following documents, which provide guidance and acceptance criteria for the safety-related containment prestressing were reviewed for scope, completeness, and consistency with referenced codes, standards, and NRC guides:

- a. Sargent & Lundy Specification L-2722, "Division 13 - Post Tensioning Work", Revision 14, dated May 18, 1979.
- b. Napoleon Steel Procedure 7A, "Post Tensioning Material Receiving and Storage", Revision 2.
- c. Napoleon Steel Procedure 7B, "Post Tensioning Tendon Installation" Revision 5.
- d. Napoleon Steel Procedure 7C, "Field Button Heading of Post Tensioning Tendons", Revision 4.
- e. Napoleon Steel Procedure 7D, "Stressing of Post Tensioning Tendons", Revision 3.
- f. Napoleon Steel Procedure 7E, "Field Greasing of Post Tensioning Tendons", Revision 3.

The above procedures and specifications were in accordance with applicable codes and standards.

2. Work Activities

Field storage, greasing and stressing activities were observed. Personnel were interviewed as to responsibilities and procedural requirements and acceptance criteria. The following specific items were observed:

- a. Storage: The tendons and associated hardware are stored in two warehouses and the station machine shop. Provisions are provided for physical and environmental protection, specifically corrosion and mechanical damage.
- b. Tendon Stressing: Tendons D1-10 and D1-13 were observed being stressed. Gages have been calibrated, matched shims were being used, jack numbers were identified, and the stressing sequence was being followed. Records were being completed during the operation.
- c. Tendon Greasing: Tendon D3-38 was observed being greased. The tank car was heated to proper temperature, the pressure was adequate, proper venting to insure the sheath was completely filled was accomplished. No grease was leaking around the protective caps. The proper records were being completed during the operation.

Tendon insertion and button heading operations were not in progress during this inspection.

3. Material Records

The inspector reviewed material receipt and certification records. The records were found to be in accordance with requirements.

4. Quality Records

The inspector reviewed records relative to containment prestressing of dome tendons. The records contained the complete inspection report including tendon insertion, button heading, stressing and greasing. The following records were reviewed: Tendon D3-1, D3-38, D2-5, D2-1, D1-15 and D1-3. The records were complete and in satisfactory condition.

Exit Interview

The inspectors met with licensee representatives (denoted in the Persons Contacted section) at the conclusion of the inspection on March 11, 1981. The inspectors summarized the purpose and findings of the inspection. The licensee acknowledged the findings reported herein.