

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

REGION III

Reports No. 50-454/80-08; 50-455/80-07

Docket Nos. 50-454; 50-455

Licenses No. CPPR-130; CPPR-131

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

Facility Name: Byron Nuclear Generating Station, Units 1 and 2

Inspection At: Byron Site, Byron, Illinois

Inspection Conducted: May 8-9, 1980

*C E Jones*  
Inspector: C. E. Jones

6-4-80

*C E Jones for*  
Approved By: C. C. Williams, Chief  
Projects Section 2

6-5-80

Inspection Summary

Inspection on May 8-9, 1980 (Report Nos. 50-454/80-08; 50-455/80-07)

Areas Inspected: Licensee corrective action on previous inspection findings and a limited tour of the construction site. Status of the erection of the heating, ventilating, and air conditioning (HVAC) system. The inspection involved a total of 11 inspector-hours on site by one NRC inspector.

Results: No items of noncompliance or deviations were noted.

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DETAILS

Persons Contacted

Principal Licensee Employees

\*G. Sorensen, Project Superintendent  
\*T. McIntire, QA Supervisor  
\*J. Porter, QA Mechanical Coordinator  
\*M. Standish, QA Structural Coordinator

Contractor Personnel

P. Lane, Hatfield

\*Denotes those attending the exit interview.

Licensee Action on Previous Inspection Findings

(Closed) Unresolved Item (454/80-01-01; 455/80-01-01) Qualification and certification of Commonwealth Edison Company employees of the Station Construction Department, SCD, one employee of Hatfield Electric Company and the revision of a SCD Procedure SCD-COP-NC-9 that addressed minimum requirements for construction related experience, rather than experience in equivalent inspection, examination, or testing in a QA/QC function. The inspector reviewed the revised Procedure SCD-DOP-NC-9 and noted that the completed revision addressed the QA/QC phase of the employee's training in addition to his specialty area.

CECo's QA surveillance Report No. 1799, dated March 21, 1980, stated that proper documentation was observed on file to qualify Mr. Lane, Hatfield Electric, for certification as a Level II inspector. Mr. Lane was qualified as a Level I inspector on October 3, 1979.

(Closed) Unresolved Item (454/79-03-02; 455/79-03-02) This item concerned the thickness of the protective coating applied to concrete surfaces in the containment building.

The inspector reviewed the job specification J-2931 and the referenced ANSI standards, ANSI N5.9, ANSI N5.12, and ANSI N101.4. The following quotation from ANSI N5.12 supplied information concerning the coating application and thickness.

The following is quoted from ANSI N5.12, Section 10, paragraphs 10.10.5 and 10.10.7. Paragraph 10.10.5 states, "The accepted standard for determining film thickness for magnetic substrates shall be the dry film thickness DFT, measurement; the wet film thickness, WFT, measurement shall be used for guide purposes only. The setting of the gages for the DFT measurement shall be performed on the blast-cleaned or coated surface of the

area where the coating work and inspection will be performed. The specified minimum dry-film thickness of each coat and of the coating system shall be determined in accordance with SSPC-PA2. The maximum thickness may also be critical and therefore shall not exceed that agreed to by the owner and the coating manufacturer.

Dry Film thickness on nonmagnetic surfaces shall be determined by measuring the quantity of coating material used over a measured surface area. The quantity shall be based on the volume solids content of the coating. A WFT gage may be used to estimate the applied film thickness but must be used immediately after the coating application. Scratch gages may also be used.

#### Functional or Program Areas Inspected

##### Site Tour

A limited tour of the construction site was made to review the status of construction and to review installation of the Heating Ventilation, and Air Conditioning (HVAC) system. Installation of the hangers, duct work, and dampers is in progress. A sample of welds in hanger fabrication and erection were selected at random. These fillet welds were evenly spaced and had a neat appearance. Additional inspection will be performed in this area during a subsequent inspection.

##### Exit Interview

The inspector met with site staff representatives (denoted under Persons Contacted) at the conclusion of the inspection on May 9, 1980. The inspector summarized the purpose and the findings of the inspection. The licensee acknowledged the findings reported herein.