

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

REGION III

Reports No. 50-454/81-02; 50-455/81-02

Docket Nos. 50-454; 50-455

Licenses No. CPPR-130; CPPR-131

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

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

Inspection At: Byron Site, Byron, IL

Inspection Conducted: January 29 and February 4, 1981

Inspectors: J. E. Konklin *J. E. Konklin* 2/19/81
K. R. Naidu *Naidu* 2/19/81
(January 29 only)
J. H. Neisler *JH Neisler* 2-19-81
Approved By: C. C. Williams, Chief *CC Williams for* 2/19/81
Projects Section No. 2

Inspection Summary

Inspection on January 29 and February 4, 1981 (Reports No. 50-454/81-02; 50-455/81-02)

Areas Inspected: Special announced inspection to review the licensee's corrective actions in response to the RIII Immediate Action letter of January 13, 1981, which related to safety-related electrical installation activities. This inspection involved a total of 26 onsite inspector-hours by three NRC inspectors.

Results: Based on the above review, the licensee was released on February 4, 1981, to resume electrical installation activities in accordance with the requirements of the RIII Immediate Action Letter.

DETAILS

Persons Contacted

Commonwealth Edison Company (CECo)

- +*V. Schlosser, Project Manager, Byron/Braidwood
- +*G. Sorensen, Construction Site Superintendent
- *J. Westermeir, Byron Project Manager, SNED
- + G. Marcus, Corporate Quality Assurance Director
- +*R. Preston, Electrical Coordinating Engineer, PCD
- *J. Denehy, Engineer, SNED
- *G. Smith, Lead Electrical Engineer, PCD
- +*M. Stanish, Quality Assurance Site Superintendent
- +*R. Klingler, Quality Assurance Electrical Supervisor

Hatfield Electric

- W. Gratza, Quality Assurance Manager
- J. Buchanan, Quality Assurance Engineer
- G. Van Lysell, Site Superintendent

- *Denotes those present at the January 29, 1981 onsite exit meeting.
- +Denotes those present at the February 4, 1981 onsite exit meeting.

The inspectors also contacted other licensee and contractor personnel during the course of the inspection.

Functional or Program Areas Inspected

Site Electrical Installation Activities

A Region III inspection at the Byron Site in December 1980 identified significant deficiencies in electrical construction activities at the site. Meetings were then held between RIII and Commonwealth Edison on December 31, 1980 and January 9, 1981, to discuss the inspection findings and the corrective actions to be taken by the licensee. On January 13, 1981, RIII issued an Immediate Action Letter which confirmed Commonwealth Edison's agreement to discontinue installation of Class 1E cables until specific cable installation and QA/QC programmatic actions were completed and RIII concurrence was obtained with regard to the reinitiation of cable installation activities.

On January 28, 1981, Commonwealth Edison informed RIII that the required corrective actions had been completed, and requested an RIII review of the corrective actions. RIII inspectors then conducted an inspection at Byron on January 29 and February 4, 1981, to review the following corrective actions required by the Immediate Action Letter:

- a. Revision of the applicable CECo and contractor procedures and checklists.
- b. Development of cable damage acceptance/rejection criteria.
- c. Training of craftsmen, inspectors and auditors in the new procedure requirements.
- d. Establishment of adequate staffing to assure proper electrical installation and inspection.
- e. Training of personnel in the use of hold tags and the control of nonconforming equipment.

During the January 29 and February 4, 1981 inspection the RIII inspectors verified that the following corrective actions had been accomplished:

- a. The licensee and the site contractors have revised the applicable QA/QC procedures, installation procedures, checklists, and surveillance and record requirements to assure proper cable installation. The inspectors reviewed the applicable procedures pertaining to cable installation and inspection, and determined that those procedures, are adequate for proper cable installation.
- b. The inspectors determined that cable damage acceptance/rejection criteria have been established and published as an appendix to the cable installation procedure.
- c. The inspectors verified that the licensee and his contractors have conducted training for foremen, superintendents, inspectors, field engineers, and quality assurance auditors and engineers on the new and revised procedure requirements.
- d. The inspectors verified that actions have been taken to increase the contractor's QC staff from five personnel in December 1980 to nine personnel scheduled to be onsite by March 1981. The licensee has contracted with an inspection agency to supply additional qualified electrical inspectors to augment the site QA organization. In addition, two QA engineers are now assigned to monitor electrical installation at Byron.
- e. Additional training on the use of hold tags and control of nonconforming equipment was conducted by the CECo Director of Quality Assurance (Construction) for 51 licensee personnel. The inspectors observed that tagging of equipment in the plants has been accomplished in accordance with QA manual requirements.

Based on the results of the inspection, Region III concurred, on February 4, 1981, with the resumption of safety-related electrical installation activities at Byron in accordance with the requirements of the Immediate Action Letter.

Exit Meetings

The inspectors met with licensee representatives (denoted under Persons Contacted) at the Byron Site on January 29 and February 4, 1981. The inspectors summarized the purpose and findings of the inspection.