

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

REGION III

Report No. 50-461/80-18

Docket No. 50-461

License No. CPPR-137

Licensee: Illinois Power Company
500 South 27th Street
Decatur, IL 62525

Facility Name: Clinton, Unit 1

Inspection At: Dewitt, IL

Inspection Conducted: September 2 - 5, 1980

Inspector: *R. L. Lee*
R. L. Lee

9-25-80

Approved By: *D. W. Hayes*
D. W. Hayes, Chief
Engineering Support Section 1

9/25/80

Inspection Summary

Inspection on September 2 - 5, 1980 (Report No. 50-461/80-18)

Areas Inspected: Observation and review of records associated with the installation and inspection of selected Class 1E cable trays and supports; review of separation of redundant Class 1E equipment; follow-up of noncompliance. The inspection involved 29 inspector-hours onsite by one NRC inspector.

Results: No items of noncompliance or deviations were identified during this inspection.

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DETAILS

Persons Contacted

Principal Licensee Employees

- *G. M. Brashear, Manager of Clinton Site
- *A. J. Budnick, Director of QA
- *J. F. Hampton, Supervisor, Construction QA
- B. L. Spicer, Senior Service Engineer
- R. Becker, Senior Service Engineer

Baldwin Associates

- *G. R. Lane, Electrical QC
- *J. Linehan, Manager QC
- *T. Selva, Manager Quality and Technical Services
- *J. Smart, QA Manager
- *D. E. Stephens, Senior Electrical Engineer

*Denotes those present at the exit interview.

The inspector also contacted other licensee and contractor personnel, including members of the quality, technical, and engineering staffs.

Licensee Action on Previously Identified Items

(Open) Infraction (50-461/80-11-01) Not following procedures, involving improper storage of electric cable. The following corrections for Class 1E (safety related) electrical cable storage at the cable storage yard were observed:

Class 1E cable reels are stored on concrete pads in a segregated section of the storage yard which is marked by signs for Class 1E cable. Also within this storage yard are three other reel storage areas, one for storage of non-safety related cable, one for cable receiving and another for cable cutting. Temporary cable is stored in a separate storage yard located across the road.

Class 1E cable reels are identified by metal tags affixed to the reels and also by a stripe of red paint on the reel above the metal tag. Cable ends are protected by cable protectors and/or electrical tape. Cable reel marking is in accordance with Baldwin Associates Instruction E-001 dated April 9, 1980.

A Baldwin Associates training session record, form JV-387 dated September 4, 1980, was observed by the RIII inspector. The signatures of ten electricians appeared on this form indicating they had attended a training session on cable reel storage.

Futher review in this area is planned for a future inspection. Pending this review this item remains open.

Functional or Program Areas Inspected

1. Observation of Class 1E Cable Tray Support Installations and Installation Records, Unit 1
 - a. The purpose of this part of the inspection was to establish that selected Class 1E electrical cable tray supports were installed and inspected in accordance with the applicable drawings, specifications, procedures, and instructions.
 - b. The inspector reviewed design specifications and drawings, project procedures, QC inspection instructions, job instructions, weld inspection procedures, hanger travelers, and QC raceway installation inspection criteria to determine installation and inspection requirements for cable tray supports.
 - c. The RIII inspector examined the installation of Class 1E cable tray supports for conformance to drawings, specifications and standards, and reviewed associated installation records against procedural requirements. The scope of the inspection included hanger locations, configurations, steel work, weld location, weld protective coatings, welder and QC inspector identity and workmanship. The specific cable tray supports examined during this inspection were: E30-1003-01A-H67, E30-1003-01A-H68, E30-1003-01A-H69, E30-1003-01A-H70, E30-1003-01A-H71, and E30-1002-04A-H5. The examination of quality control inspection records of the cable tray supports was not included in the scope of this inspection.

No items of noncompliance or deviations were identified in this area.

2. Class 1E Cable Tray Installation and Installation Records
 - a. The purpose of this part of the inspection was to examine selected Class 1E electrical cable tray installations for conformance to applicable drawings, specifications, procedures, instructions, codes, and standards.
 - b. The RIII inspector reviewed applicable design specifications and drawings, project procedures, licensee QA instructions, contractor QC inspection instructions, raceway/hanger installation and inspection procedures, raceway marking, raceway cards, contractor job instructions, and QC raceway installation inspection criteria forms.
 - c. The RIII inspector observed installation of Class 1E cable trays in the control building. The tray installation was inspected for

conformance to drawings, specifications, and standards. Installation records were reviewed for completeness and adherence to procedural requirements. The scope of the inspection included electrical and fire separation of redundant systems, identification, and workmanship. Cable trays inspected were nos. 10197B-C1E and 10197G-K1E. The examination of quality control inspection records was not included within the scope of this inspection.

No items of noncompliance or deviations were identified in this area.

3. Independence of Class 1E Motor Controllers

- a. The purpose of this part of the inspection was to establish that selected Class 1E redundant electrical motor controllers will be physically separated in order to assure independence of divisions 1 and 2 motor controllers.
- b. The inspector reviewed Sargent and Lundy electrical equipment locations for the motor controllers being prepared in the auxiliary building. The Class 1E motor controllers included nos. 1AP04EB, 1AP05EJ, 1AP07EG, 1AP09ED, in the 4160 volt systems and 1AP11E, 1AP12E, OAP05E, OAP06E in the 480 volt system.
- c. The RIII inspector's review of electrical equipment layout drawings and the observation of equipment location preparation indicate that for the Class 1E motor controllers inspected, independence between redundant systems is being maintained by separation distance.

No items of noncompliance or deviations were identified in this area.

Exit Interview

The inspector met with licensee representatives (denoted in the Persons Contacted paragraph) at the conclusion of the inspection on September 5, 1980 and outlined the scope of the inspection along with a summarization of the results. The licensee acknowledged the findings as reported.