

U. S. NUCLEAR REGULATORY COMMISSION

REGION III

Report No.: 50-440/85044; 50-441/85018

Docket No.: 50-440; 50-441

License No.: CPPR-148; CPPR-149

Licensee: Cleveland Electric Illuminating Company
Post Office Box 5000
Cleveland, OH 44101

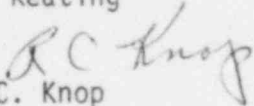
Facility Name: Perry Nuclear Power Plants, Units 1 and 2

Inspection At: Perry Site, Perry, Ohio

Inspection Conducted: July 26 to September 12, 1985

Inspector: D. E. Keating

Approved By: R. C. Knop



10-18-85
Date

Inspection Summary

Inspection on July 26 to September 12, 1985 (Report No. 50-440/85044;(DRP)
50-440/85018(DRP))

Areas Inspected: Review of structural as-built program, cable installations and testing, allegation followup on three (3) allegations, review of maintenance program and plant tours. A total of 125 hours of inspection including 20 hours off-shift were expended by one NRC inspector.

Results: The licensee appears to have adequate control of the areas inspected and the activities observed. No violations or safety concerns were noted.

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1. Persons Contacted

Cleveland Electric Illuminating Company

- *C. M. Shuster, Manager, NQAD
- *F. Stead, Manager, NED
- *E. Riley, General Supervisor, CQS
- *M. Kritzer, Civil/Structural Unit Supervisor, NQAD
- *S. P. Tulk, Electrical Unit Supervisor, CQS
- *E. Parker, Piping/Mechanical Unit Supervisor, NQAD
- *T. Boss, Supervisor, QAD
- *B. B. Liddell, Operations Engineer
- *B. S. Ferrell, Licensing Engineer
- *K. J. Cinorelli, Lead Electrical Q.E., NQAD
- *R. Matthys, Lead Mechanical Q.E., NQAD
- *D. Askew, Lead Mechanical Inspector, OQS
- *N. J. Lehman, Staff Analyst, PPTD

The inspector also contacted others of the construction and operations staffs.

*Denotes those attending the monthly exit meeting.

2. Installation of Stainless Steel, Mineral Insulated Control Cables (52063C)

The stainless steel, mineral insulated control cables are used with the incore monitoring devices. Continuity testing on these cables must be performed prior to installation and must be within a 50% tolerance range of the manufacturers test values.

The resident inspector walked down the installed cables for circuits 1-D19R-1A, 4A, 11B, and 14B. The inspector also reviewed Engineering Change Notice (ECN) 28143-33-4896, Revision A and Field Variance Authorization (FVA) 8393-33-1698. Also reviewed was the test data for these installed circuits.

The inspector witnessed the attempt to verify the qualification of samples of cable for circuit 1D19R-5A which was unsuccessful. This failure was probably caused by the sensitivity of the mineral insulation to the semi controlled (moist) atmosphere of the testing area, which is not as severe after installation since the cable is sealed, and possible problems with calibration of testing equipment. In addition, an attempt was made to qualify two other cables which also failed. The tests were terminated and a nonconformance report written. Testing will commence after recalibration or changing of the test equipment.

This is considered to be an open item (440/85044-01).

3. Review of Structural Steel As-Builts (37051B)

The resident inspector reviewed the licensee's program to determine availability of as-built documents to site operations personnel and the ease with which the personnel are able to determine areas and structural assemblies and/or elements associated with these areas within the plant.

Documentation of structural steel and concrete areas starts with Gilbert Associates Inc. (GAI) design drawings, i.e., steel framing plan and section drawing numbers and concrete plan and section drawing numbers, which then leads to the document package which contain the weld maps and bolting details listing all NRs, ECNs, FVAs, etc. for each member and joint for structural steel. These weld maps have the same drawing number as the design drawings. The same is true for concrete work. The GAI design drawing number leads to the document package containing the pour release drawings. These document packages contain the NRs, etc., referred to above for a complete history of work performed. The original NRs, etc., are being placed on microfilm for ease of storage and retrieval. The originals will be then sent to an off-site vault for permanent storage.

This activity plus several structural walkdowns conducted at various stages of construction and documented in several inspection reports constitute completion of this phase of the module.

4. Maintenance Program Under Extended Construction Delay (92050)

The resident inspector conducted inspection surveillances of Pullman Power Products (PPP) laydown areas, both off-site at Parmley Road and on-site in PPP controlled areas. Observed were representative samples of the segregation of safety-related and nonsafety-related areas, the protection and capping of pipe ends on small bore and large bore piping, and protection of both installed and uninstalled equipment. These areas were determined to be acceptable.

A review of procedures, equipment maintenance histories, NRs, Maintenance Requests (MR), and Work Authorizations (WA) was performed and determined to be acceptable. The resident also reviewed representative samples of maintenance activities and documentation for Unit 2 equipment and piping which has been installed and the equipment that has not been installed as yet. This was found to be acceptable.

5. Allegation Followup (99014)

- a. (Closed) Allegation (No. RIII-85-A-0124-01) An article in a local newspaper indicated that warranties on equipment that has been installed and equipment not yet installed have expired.

As indicated in paragraph 4 of this report the resident inspector has reviewed the licensee's maintenance program, which includes equipment manufacturers recommended maintenance procedures. These

have been incorporated into maintenance procedures and in certain cases expanded upon. In all cases regularly scheduled maintenance is performed.

This item is substantiated, in that warranties have expired on some equipment, however, manufacturer's warranties on equipment have no safety significance and based upon the in-place maintenance program of the licensee, which was found to be acceptable, this item is closed.

- b. (Closed) Allegation (No. RIII-85-A-0124-02) This concerns the removal of one of the Recirculation pump motors after it had failed because of an electrical fault. It has been alleged that in the process of cutting pipe to remove the pump motor, piping was cut and not documented or controlled in any way.

The resident inspector contacted cognizant contractor QC personnel and licensee QA personnel. The resident was informed that the Unit 1 Recirculation pump motor failed due to an electrical short circuit in which piping was cut to allow access. The work involved was documented on Deviation Report DRCQS 4562 dated May 22, 1985. For Unit 1 the moving and installation of Unit 2 pump was performed under authorization of ECNs and FVAs. All of the cut and removed piping associated with this work involved non-safety related 2" diameter line associated with the Nuclear Closed Cooling System (P43).

Based upon the NRC review of the licensee's activities in this area, this matter appeared to be adequately controlled. This allegation is considered closed.

- c. (Closed) Allegation (AMS RIII-85-A-0124-04) This allegation concerns problems with a heat test in the drywell which caused a fire. The tests were continued without success. The allegation also stated that the cause of the test failures could not be found.

The resident inspector reviewed the Reactor Recirculation System Test TP1B33P001 which required the system to be brought up to operating temperature (in excess of 400°F) and resulted in a fire. The fire was caused by wood scaffolding in near proximity with the piping associated with the recirculation system. The test was field completed on July 31, 1985. Delays in the test were due to the electrical failure of one of the recirculation pumps (see Section 5.a) which required replacement, and the fire (noted above). No significant problems were identified in the conduct of the above test nor was any significant safety related equipment damaged during the fire.

This allegation was not substantiated and is considered closed.

6. Plant Tours (64703)

The resident inspector conducted several plant tours during the inspection period. Of particular interest was housekeeping with increased craft activity in certain areas after major testing had been accomplished. The licensee has been very diligent regarding this item. This will continue to be monitored during future inspections.

7. Open Items

Open items are matters which have been discussed with the licensee, which will be reviewed further by the inspector, and which involve some action on the part of the NRC or licensee or both. An open item is discussed in Paragraph 2.

8. Exit Meeting

The inspector met with the licensee personnel indicated in Paragraph 1 and others during the inspection period and apprised them of the results of this inspection.

The licensee indicated that none of the information furnished to the inspector during this inspection was of a proprietary nature.