

U. S. ATOMIC ENERGY COMMISSION
DIRECTORATE OF REGULATORY OPERATIONS

REGION III

RO Inspection Report No. 050-358/72-03

Subject: Cincinnati Gas and Electric Company
Cincinnati, Ohio
Zimmer Power Station
Moscow, Clermont County, Ohio

License No. Pre-CPPR
Priority: N/A
Category: A

Type of Licensee: BWR (GE) - 807 Mwe

Type of Inspection: Special, Announced

Date of Inspection: September 7, 1972

Date of Previous Inspection: January 20, 1972
(Licensee-Vendor Audit - Quaker Alloy Casting)

Principal Inspector:

J. W. Sutton
for *J. W. Sutton*

Oct 12, 1972

(Date)

Accompanying Inspectors: None

Other Accompanying Personnel: None

Reviewed By: W. E. Vetter, Chief *W. E. Vetter*
Reactor Construction Branch

10-12-72

(Date)

Proprietary Information: None

SECTION I

Enforcement Action

- A. Noncompliance: None
- B. Nonconformance: None
- C. Safety Items: None

Licensee Action on Previously Identified Enforcement Matters

- A. Radiographic Audit Conducted Without Reference to Quantitative or Qualitative Acceptance Criteria (RO Report No. 050-358/72-02)

Cincinnati Gas and Electric Company (CG&E) in response to an RO:III letter and enclosure dated February 29, 1972, stated that corrective action have been accomplished as follows:

1. Radiographic requirements covered in the GE specification for the recirculating valves were reviewed for conformance.
2. The CG&E check list was revised to require access and review of quality requirements.
3. CG&E obtained GE assurance that the GE inspection representatives will conduct inspections through reference to appropriate documentation.

The licensee's letter of response reply was found to be satisfactory and this matter is considered to have been resolved.

Unresolved Items: None

Status of Previously Reported Unresolved Items

- A. Implementation instructions for the quality documentation required by Criterion VII, 10 CFR Part 50, Appendix B, relative to General Electric (GE) manufactured items, has been prepared by the CG&E QA manager and will be issued as a revision to the QA manual. This matter will be reviewed again during the next inspection.

B. RO:III received a revised copy of the Kaiser Engineers, Incorporated (KEI) QA manual dated March 15, 1972. Those areas of the original QA manual, which had previously been found to be discrepant, have been revised. This item is considered to be closed.

Design Changes: None

Unusual Occurrences: None

Persons Contacted

The following people were contacted during the inspection and management interview:

Cincinnati Gas and Electric Company (CG&E)

- *A. E. Rothenberg, Manager - Engineering Department
- *J. D. Flynn, Assistant Manager - Engineering Department
- E. C. Pandorf, Principal Quality Assurance and Standards Engineer
- R. P. Ehas, Quality Assurance and Standards Engineer
- J. F. Weissenberg, Quality Assurance and Standards Engineer
- R. L. Wood, Quality Assurance and Standards Engineer
- W. W. Schwiers, Quality Assurance and Standards Engineer

*Management Interview only.

Kaiser Engineers, Incorporated (KEI)

- J. H. Jackson, Quality Assurance Manager - Site
- H. B. Gibbs, Warehouse and Receiving Supervisor

Management Interview

During the management interview, the following items were discussed:

A. Storage of Nuclear Steam System (NSS) Components

The inspector stated that some of the stored equipment could be adversely affected by severe temperatures and that some sort of heat inside the storage warehouse would be required during the winter season.

The licensee said that this matter was presently under consideration and that heating would be provided. (Paragraph 2)

B. The inspector stated that the instruction for quality documentation, to be furnished for GE manufactured items, was not consistent with the instructions in the CC&E QA manual. The licensee replied that a draft revision to the manual was under preparation and would be submitted to RO:III for information. He also stated that the KEI manual would be revised to reflect this change. (Paragraph 4)

SECTION II

Additional Subjects Inspected, Not Identified in Section I, Where No Deficiencies or Unresolved Items Were Found

1. General

a. Status of Construction

Dewatering of the reactor building excavated area has been completed. Work now in progress consists of soil density determination to verify that recompacting of the excavated area can be initiated.

The condenser circulating water pipe is scheduled to be placed between the river and the site during October and November of 1972.

The entire construction site has been fenced, and a 24-hour security watch is maintained.

H. C. Nutting Company has been awarded the contract for all soil and concrete testing.

Hilltop Concrete Company has been awarded the batch plant contract. Components for the batch plant are onsite but will not be erected until spring, 1973.

2. NSS Components, Receiving, and Storage

a. Warehouse

CG&E has leased a 60' x 160', 9600 square foot, fireproof, precast concrete, storage building to warehouse all NSS components received onsite. The warehouse is located in a manufacturing section of Cincinnati, Ohio, approximately 25 miles from the site. The building is well constructed and is equipped with a 15-ton overhead crane. A 24-hour security watch is maintained in the area of the warehouse. Necessary electrical power is available for use within the warehouse.

At present, no form of building heat is available. However, CG&E is considering heating the entire building, with either electric or gas heaters.

b. Receiving - Storage

All the NSS recirculating pipe for the Zimmer unit has been received and is stored on wood supports within the building. Also in storage are recirculating relief and gate valves, flow regulators, pipe restraints, CRD flow and solinoid valves, and the Reactor Core Isolation Cooling system (RCIC) turbine and pump assembly.

All piping and equipment has been inspected for damage and, as necessary, has been rewrapped or recreated. KEI has all equipment tagged "hold" until quality documentation is received from GE.

Proper documentation of the hold tags, with nonconformance reports as prescribed in the KEI QA manual, has been accomplished.

3. Audits

Audits of vendors by CG&E and their inspection agents, Conam Inspection, Incorporated, have been conducted during the past eight months. The audit reports were reviewed and were found to be properly prepared and signed by authorized personnel.

An internal audit of the CG&E QA program was conducted by Mr. G. M. Pemberton, Principal Staff Engineer, on May 15 - 16, 1972. The audit was conducted according to prescribed procedures and the results have been reported to CG&E management.

Details of Subjects Discussed in Section I

4. General Electric Documentation

The inspector reviewed a total of seventeen "quality requirement documents" which have been sent to CG&E to identify the quality requirements for GE manufactured items in keeping with the requirements of Criterion VII, 10 CFR Part 50, Appendix B. These documents are to be referenced in the revisions to the CG&E and KEI QA manuals. The quality documents reviewed are as follows.



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September 14, 1972

Cincinnati Gas and Electric Company
ATTN: Mr. W. H. Dickhoner, Vice President
Engineering and Electrical Production
139 East 4th Street
Cincinnati, Ohio 45201

Docket No. 50-358

Gentlemen:

This refers to the inspection conducted by Mr. Sutton of this office on September 7, 1972, of quality assurance and site preparation activities relative to the Zimmer site and to the discussion of our findings at the conclusion of the inspection with Messrs. Rothenberg, Pandorf, and Flynn of your staff.

Areas examined during the inspection included the nuclear steam supply (NSS) system primary coolant piping and components receiving inspection and storage procedures, the status of site preparation activities, quality documentation to be supplied by the General Electric Company for components and equipment manufactured by General Electric, and storage facilities being used for the storage of Class I equipment and components currently at the site. Within these areas, the inspection consisted of selective examination of procedures and representative records, interviews with Cincinnati Gas and Electric Company personnel, and observations by the inspector.

No items of noncompliance with AEC requirements were identified within the areas examined during this inspection.

With regard to questions raised during this inspection, we understand that you intend to: (1) revise the Zimmer Quality Assurance Manual to identify the scope and type of quality documentation to be received at the site with respect to General Electric manufactured NSS system components and equipment, and (2) change the Kaiser Engineering, Incorporated, receiving procedures to reflect this QA Manual revision. We will examine your action on this matter during our next routine inspection.