

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

REGION III

Report No. 50-358/80-20

Docket No. 50-358

License No. CPPR-88

Licensee: Cincinnati Gas and Electric Company
139 East 4th Street
Cincinnati, OH 45201

Facility Name: Wm. H. Zimmer Nuclear Power Station

Inspection At: Wm. H. Zimmer Site, Moscow, OH

Inspection Conducted: August 6-8, 1980

Inspector: *K. D. Ward*
K. D. Ward

Approved By: *D. H. Danielson*
D. H. Danielson, Chief
Engineering Support Section 2

8/28/80
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Inspection Summary

Inspection on August 6-8, 1980 (Report No. 50-358/80-20)

Areas Inspected: Review of preservice inspection (PSI) and welding QA/QC procedures, work activities, nondestructive examination (NDE) and welding personnel certification, and data; IE Bulletin 79-04 and IE Bulletin 80-08 activities. The inspector involved a total of fourteen inspector-hours onsite by one NRC inspector.

Results: Of the areas inspected, one apparent item of noncompliance was identified (infraction - failure to comply with Code requirements for NDE personnel experience - Paragraph 5).

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DETAILS

Persons Contacted

Cincinnati Gas and Electric Company (CG&E)

*W. Schwiers, QA Manager
*S. Swain, Construction Manager
*R. Ehas, Senior QC Engineer
*J. Weissenberg, QA Engineer
R. Wood, QA Engineer

Kaiser Engineers, Inc. (KEI)

*E. Knox, Corporate QA Manager
*P. Gittings, Manager QA
*C. Stanfield, Construction Manager
*R. Baker, Inspection Supervisor
*D. Feltner, Construction Engineer Mechanical
S. Jackson, QA Engineer
T. Smith, Lead Inspector
J. Mowatt, QC Inspector

Nuclear Energy Services, Inc. (NES)

J. Robinson, Level II Ultrasonic (UT) and Liquid Penetrant (PT)
T. Caputo, Level I UT

Hartford Steam Boiler Engineering and Insurance Co. (HSB)

T. Cox, Authorized Nuclear Inservice Inspector (ANII)

The inspector also contacted and interviewed other licensee and contractor employees.

*Denotes those present at the exit interview.

Licensee Action on Previous Inspection Findings

(Closed) Noncompliance (358/78-30-02): Fourteen discrepancies were closed in RIII Report No. 50-358/79-17. The remaining three discrepancies were corrected and reviewed. The inspector has no further questions.

Licensee Action on IE Bulletins

Ref: a. NRC memorandum, dated March 30, 1979, to CG&E (IE Bulletin No. 79-04 titled, "Incorrect Weight for Check Valves Manufactured by Velan Engineering Corporation").

- b. CG&E letter, dated May 29, 1979, to NRC Region III (Final response to IE Bulletin 79-04).
- c. NRC memorandum, dated April 9, 1980, to CG&E (IE Bulletin No. 80-08 titled, "Examination of Containment Liner Penetration Welds").
- d. CG&E letter, dated July 7, 1980, to NRC Region III. (Response to IE Bulletin No. 80-08).

(Closed) IE Bulletin 79-04, The inspector reviewed the final response for IE Bulletin 79-04 and has no questions at this time.

The inspector reviewed the response to IE Bulletin 80-08 and the actions taken to date. RIII will review the licensee's written final response to IE Bulletin 80-08. This is an unresolved item. (358/80-20-01)

Functional or Program Areas Inspected

1. Preservice Inspection

a. General

Ref:

- (1) RIII Report No. 50-358/78-19 (PSI)
- (2) RIII Report No. 50-358/78-23 (PSI)
- (3) RIII Report No. 50-358/78-30 (PSI)
- (4) RIII Report No. 50-358/79-17 (PSI)

b. Review of Reviewed PSI Procedures

The inspector reviewed field changes to the following procedures:

- (1) NES, Ultrasonic Examination Procedure for Piping Butt Welds and Longitudinal Welds. 80A1168, Revision 1, October 11, 1979.
- (2) NES, Ultrasonic Examination Procedure for RHR, LPCS, and HPCS Pump Welds. 80A1186, Revision 0, January 18, 1980.
- (3) NES, Ultrasonic Examination Procedure for Control Rod Drive Housing Welds. 30A1184 Revision 1, October 10, 1979.

No items of noncompliance or deviations were identified.

c. Review of Data and Certification of Material

The inspector reviewed the following:

- (1) Magnaflux Materials, Cleaner, batch No. 80F027.
- (2) Ultrasonic calibration of instruments, calibration blocks, and transducers.
- (3) Data information was available for the PSI activities to date.

No items of noncompliance or deviations were identified.

d. NDE Personnel Certifications

The inspector reviewed the following NES NDE personnel certifications in accordance with SNT-TC-1A, 1975 Edition.

<u>Name</u>	<u>UT</u>	<u>PT</u>
J. Robinson	II	II
K. Brummet	I	II
A. Caputo	I	

No items of noncompliance or deviations were identified.

2. Welding and Quality Assurance

a. General

A tour was made of the weld test shop by CG&E personnel, KEI personnel, and the inspector. The KEI QC inspector informed the NRC inspector that in the past two weeks he spent approximately 98% of his time in the weld test shop. Prior to the two weeks, a KEI QC inspector visited the weld test shop approximately twice a week. The inspector reviewed the procedure "QC Duties in Weld Test Shop" and found that there is no specific time for the QC inspector to be in the weld test shop. The licensee agreed to revise the procedure. This is an unresolved item (358/80-20-02).

The KEI QC inspector is certified as a Level II in liquid penetrant examination (PT). The PT certification was reviewed and found that the KEI Level III examiner on site was certified by KEI without a written examination. The NDE is being performed to ASME Section III, 1971 Edition, Summer 1973 Addenda.

b. Weld Rod Control

The inspector reviewed the weld rod control system including purchasing, receiving, storing, ovens, disbursing, and handling of the weld rod.

No items of noncompliance or deviations were identified.

c. Test Pipe Weld Coupons

The welders test pipe weld coupons are radiographed for acceptance and the identification was observed steel stamped on the pipe.

No items of noncompliance or deviations were identified.

d. Audit, Certifications, and Records

The inspector reviewed CG&E, Field Audit Report No. 316, welder certifications, welder performance qualification tests and procedures qualification records.

No items of noncompliance or deviations were identified.

e. Program and Procedures

The inspector reviewed the KEI QA Program and the following procedures:

- (1) KEI, Shielded Metal Arc, AWS Carbon Steel to Carbon Steel Structural Shapes Charpy Tested A-588 Grade B (as rolled) 3.1.51, February 1975. (Hanger Qualification).
- (2) KEI, Indoctrination and Training No. 20, May 1979 for QC personnel performing QA activities.
- (3) KEI, Nondestructive Examination Personnel Qualification No. 4.5, R.2, February 1979.

In the "General Requirements" of the Kaiser procedure, "Nondestructive Examination - Personnel Qualification No. 4.5, R.2, February 1979", all NDE personnel including personnel in radiography, ultrasonic, magnetic particle, and liquid penetrant examinations are qualified in accordance with SNT-TC-1A, 1968 Edition. Paragraph 5.4.2 of the Kaiser procedure states that in part, "High school graduate plus six months experience as a certified Level I in nondestructive testing. . ." SNT-TC-1A 1968 Edition states in part, "High school graduation plus two years experience as a certified NDT Level 1 in radiographic testing . . .", "High school graduation plus one year experience as a certified

NDT Level I in magnetic particle testing . . ." and "High school graduation plus two years experience as certified NDT Level I in ultrasonic testing . . ."

The KEI procedure does not state enough experience for the NDE personnel being certified for radiography, ultrasonic and magnetic particle examinations. This is an item of noncompliance in Appendix A. (358/80-20-03)

Except as noted, no items of noncompliance or deviations were identified.

f. Observation

The equipment was in good condition and the inspector observed welders welding in the weld test booths. The inspector also observed welding of hangers for the cooling water lines in the diesel generator room B and examined the hanger welds in the diesel generator rooms A and C.

No items of noncompliance or deviations were identified.

Unresolved Items

Unresolved items are matters about which more information is required in order to ascertain whether they are acceptable items, items of non-compliance, or deviations. The unresolved items disclosed during the inspection are discussed in Licensee Action on IE Bulletins and Paragraph 2.a.

Exit Interview

The inspector met with site representatives (denoted in Persons Contacted paragraph) at the conclusion of the inspection. The inspector summarized the scope and findings of the inspection noted in this report.