



UNITED STATES
 NUCLEAR REGULATORY COMMISSION
 REGION I
 631 PARK AVENUE
 KING OF PRUSSIA, PENNSYLVANIA 19406

Streeter / Section Chief A-24

OCT 13 1981

MEMORANDUM FOR: George B. Georgiev, Senior Metallurgical Engineer, DRRRI, IE
 Robert F. Warnick, Director, Enforcement & Investigation, RTII ✓

THRU: *Ed* Lowell E. Tripp, Chief, M&PS, EIB, DETI, RI

FROM: Samuel D. Reynolds, Jr., Reactor Inspector, M&PS, EIB, DETI, RI

SUBJECT: RESULTS OF METALLOGRAPHIC EXAMINATION OF DEFECTIVE SA106
 GRADE B PIPE

In the course of the trip to Zimmer to evaluate the use of the XRF Metal Analyzer on August 25-26, 1981, a portion of 1½" Schedule 160, SA106, Grade B defective pipe was obtained for evaluation. The defective pipe was the subject of deficiency report (QACMI-G14: Reference) #SR3046 and NR E-5177. The pipe was purchased from Gulf States Tube Corporation, Rosenberg, Texas through McJunkin Corporation, Charleston, West Virginia on McJunkin Order #64672-64673. The material certification indicates the Heat Number to be HA-9587, the material to SA106, Grade B conforming to Section III for Class II Piping Materials. The material certification also states that the pipe was hydrotested at 2500 psig. The portion of the tube obtained by the NRC inspector was ground, polished and etched with ferric chloride. This process was repeated for further confirmation. The result of the macrographic metallography was verification that the material did not contain a longitudinal weld. The structure was 100% wrought with no indication of solidified weld metal or weld heat effects. The etched structure observed was typical of a seamless carbon steel pipe with a large ID lap. It appears that the last tube making operation was a tube "sinking" type operation. Discussion with Gulf States Tube Corporation indicated that this size tube is made on a stretch reducing mill which produces a hot sinking operation. The defect appeared to contain high temperature oxidation products typical of a drawn-in large inclusion. The visual analysis of the defect area appears to be totally incapable of sustaining a 2500 psig hydrotest.

for Lowell E. Tripp
 Samuel D. Reynolds, Jr.
 Reactor Inspector



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20545

JUL 15 1981

A-25

Docket No. 50-358

MEMORANDUM FOR: The Atomic Safety and Licenses
Nuclear Power Station

FROM: Robert L. Tedesco, Assistant
Director

SUBJECT: BOARD NOTIFICATION - WM. H. ZIMMER NUCLEAR POWER STATION
HEARING (BN 81-14)

The enclosed letter, James G. Keppler, IE Region III, to Earl A. Borgmann, Cincinnati Gas and Electric Company, dated April 8, 1981, is being forwarded as a preliminary notice of matters and activities which potentially could bear upon the licensing proceeding for the Wm. H. Zimmer Nuclear Power Station.

We anticipate that the Region III report(s) will be available in late summer or early fall, at which time, we will forward them to you.

R. L. Tedesco

Robert L. Tedesco, Assistant Director
for Licensing
Division of Licensing

Enclosure:
Ltr. from J. G. Keppler, NRC
to E. A. Borgmann, CG&G

JUL 20 1981

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Mr. Earl A. Borgmann
Senior Vice President
Cincinnati Gas & Electric Company
P. O. Box 960
Cincinnati, Ohio 45201

cc: Troy B. Conner, Jr., Esq.
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Resident Inspector/Zimmer
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Moscow, Ohio 45153

Mr. John Youkilis
Office of the Honorable William Gradison
United States House of Representatives
Washington, D. C. 20515



UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION III
799 ROOSEVELT ROAD
GLEN ELLEN, ILLINOIS 60137

ENCLOSURE 1

APR 8 1981

Docket No. 50-358

Cincinnati Gas and Electric
Company
ATTN: Mr. Earl A. Borgmann
Senior Vice President
Engineering Services and
Electric Production
139 East 4th Street
Cincinnati, OH 45201

Gentlemen:

This refers to concerns identified during the ongoing investigation at the Zimmer site which were discussed with you and members of your staff on March 27, 1981, by R. F. Warnick and members of the investigation team and which Mr. Warnick and I discussed with you on March 31, 1981, in the Region III office. The investigation began on January 12, 1981, and is expected to continue for several more weeks. The results of the investigation will be documented in two or more investigation reports.

The NRC's concerns relating to ongoing construction related activities are the subject of this Immediate Action Letter. This letter documents the following corrective measures which we understand you have initiated or plan to take concerning the problems identified by the NRC:

1. Concerning QA Staffing

CG&E will increase the size and technical expertise of the CG&E QA organization by adding individuals qualified in the areas of radiography and nondestructive testing, piping supports and hangers, welding, structural design and fabrication, electrical design and construction, and metallurgy. We understand CG&E will utilize temporary personnel qualified in these areas until permanent staff members have been hired.

2. Concerning Independence and Separation Between Kaiser Construction and Kaiser QA/QC

CG&E will take action by April 15, 1981, to assure independence and separation of the QA/QC function performed by Kaiser from the construction function. Region III will be informed of actions taken.

3. Concerning QC Inspections

Using the personnel described in item 1 above, CG&E will conduct 100% reinspections of QC inspections conducted by Kaiser and other contractors after the date of this letter. This will continue until the

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April 8, 1981

revised CG&E audit program as described in item 10, below, is implemented by these qualified individuals and RIII releases this requirement.

4. Concerning QC Inspection Procedures

All QC inspection procedures will be reviewed and revised (where appropriate) by qualified design engineers and QA personnel. These reviews will be conducted by personnel independent of the construction organization to confirm that the procedures include appropriate inspection requirements and applicable hold points. The construction activities controlled by these QC inspection procedures will not be performed after the date of this letter until the applicable procedure has been reviewed and approved.

5. Concerning Training

QA/QC personnel at the Zimmer site will receive training on any new procedures and practices resulting from actions taken to fulfill provisions of this letter prior to implementation of the procedures. In addition, refresher training will be given prior to June 1, 1981, on (a) the identification and documentation of nonconformances, deficiencies, and problems, (b) the procedure for resolving nonconformances, deficiencies, and problems, (c) the feedback mechanism for informing the identifying individual of the resolution of the nonconformance, deficiency, or problem, and (d) the avenue of appeal should the identifying individual disagree with the adequacy of the resolution.

6. Concerning Deviations from Codes and FSAR Statements

Prior to May 1, 1981, the procedures governing the identification, reporting, and resolution of deviations from Codes and FSAR statements will be reviewed for adequacy and revised as appropriate. The procedures will require CG&E to review and approve the resolution of any such deviations.

7. Concerning the Voiding of Nonconformance Reports

The procedures governing nonconformance reporting will be reviewed for adequacy. The review will be accomplished not later than April 10, 1981. The disposition of each nonconformance report together with appropriate justification will be documented.

8. Concerning QA/QC Records

The review and alteration of existing QA and QC records has been stopped. These records will be controlled by CG&E until a program defining records

April 6, 1981

control, usage, and adequacy has been prepared by CG&E and agreed to by RIII.

9. Concerning Conditions Adverse to Quality

CG&E will perform a 100% review of all surveillance and nonconformance reports written by contractor personnel after the date of this letter. This program will continue until RIII releases this requirement.

10. Concerning the Audit Program

The existing CG&E audit program will be reviewed and revised by June 1, 1981, to include technical audits of construction work and more comprehensive and effective programmatic audits.

Please inform us immediately if your understanding of these items is different from that stated above.

Sincerely,

James G. Keppler
Director

cc:
Mr. J. R. Schott, Plant
Superintendent
Central Files
Reproduction Unit NRC 20b
AEOD
Resident Inspector, RIII
PDR
Local PDR
NSIC
TIC
Harold W. Kohn, Power
Siting Commission
Citizens Against a Radioactive
Environment
Helen W. Evans, State of Ohio

JUL 15 1981

BOARD NOTIFICATION DISTRUBUTION

Docket File (50-358)
LB#1 Reading File
D. Eisenhut/R. Purple
NRC PDR
Local PDR
DL Branch Chiefs
I. Peltier
B. J. Youngblood
M. Rushbrook
R. H. Vollmer
T. Murley
R. Mattson
S. Hanauer
B. Snyder
R. Hartfield, MPA
OELD
OIE (3)
TERA
NSIC
TIC
ACRS (16)
H. R. Denton/ E. Case
PPAS (H. Thompson)
E. Hughes
C. Barth, ELD
J. Keppler, Region III
E. Blackwood, IE Hqrs.
J. Sniezek, IE Hqrs.

bcc: W. J. Dricks
V. Stello

A-26

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U.S. HOUSE OF REPRESENTATIVES
 SUBCOMMITTEE ON ENERGY CONSERVATION
 AND POWER
 OF THE
 COMMITTEE ON ENERGY AND COMMERCE
 WASHINGTON, D.C. 20515

April 29, 1982

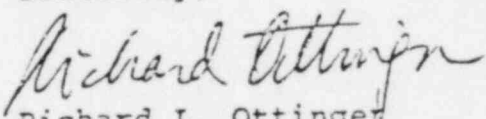
W. MICHAEL MCCABE
STAFF DIRECTOR

The Honorable Nunzio Palladino
 Chairman
 Nuclear Regulatory Commission
 Washington, D.C. 20555

Dear Nunzio:

Please provide an updated summary of the activities of the Nuclear Regulatory Commission since September 1, 1981, with regard to an investigation or special inspection of the W.H. Zimmer nuclear power plant under construction near Cincinnati, Ohio. Please separate this response into activities undertaken by: i) Headquarter's Office of Inspection and Enforcement, ii) Regional Office of Inspection and Enforcement, and iii) Office of Inspector and Auditor.

I am looking forward to receiving your response by May 15, 1982.

Sincerely,

 Richard L. Ottinger
 Chairman

RLO/jvw

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RLO



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

4/27/82
A-29

May 14, 1982

CHAIRMAN

The Honorable Richard L. Ottinger, Chairman
Subcommittee on Energy Conservation and Power
Committee on Energy and Commerce
U. S. House of Representatives
Washington, D. C. 20510

Dear Mr. Chairman:

In response to your letter to me of April 29, 1982, I am providing you the following summary of activities by the U. S. Nuclear Regulatory Commission since September 1, 1981 regarding investigations involving the William H. Zimmer Nuclear Power Plant.

Region III

Since September 1 the principal activities of the Region III staff with regard to Zimmer have been directed toward (1) completion of the first phase of the investigation on October 9 and the issuance of the report and civil penalty on November 24; (2) reorganization of the Region III office on February 8, 1982 to allow personnel to focus on the expeditious completion of the second and last phase of the investigation; (3) inspections by resident and region-based personnel to assess the adequacy of ongoing construction activities and to assess the quality of past work; and (4) planning and implementation of field work required to complete the investigation. Other Region III related efforts included participation in a special ACRS subcommittee meeting on February 18, 1982, and coordination of investigation/review by the NRC Office of Inspector and Auditor and the Department of Justice. Region III expects to complete the investigation by December 1982.

Some hardware deficiencies have been identified thus far by the licensee; however, the significance and extent of potential deficiencies have not yet been determined. It is the purpose of the NRC-required Quality Confirmation Program to make these determinations. NRC licensing action will not occur unless the NRC is fully satisfied that the licensee has made these determinations and unless the NRC is confident that quality of construction provides adequate assurance the plant can be safely operated.

Office of Inspector and Auditor

Active field investigations have not been conducted by the Office of Inspector and Auditor (OIA) involving the William H. Zimmer Nuclear Project since September 1, 1981. OIA initiated an investigation which covered the period from late May 1981 through early July 1981. However, following a meeting on

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