

NUCLEAR REGULATORY COMMISSION

September 26, 1983

MEMORANDUM FOR:

Chairman Palladino Commissioner Gilinsky Commissioner Roberts Commissioner Asselstine:

Commissioner Bernthal

FROM:

John E. Zerbe, Directori

SUBJECT:

COMMENTS ON TORREY PINES: ZIMMER REPORT

OPE has reviewed the final report by Torrey Pines Technology (TPT) entitled. Independent Review of Zimmer Project Management", dated August, 1983, and we offer the following summary of results and our comments in preparation for the briefing scheduled for September 28, 1983.

BACKGEOUNG

In accordance with the Commission's November 17, 1982 order to show cause and immediately suspend construction (CL1-82-33), Cincinnati Gas & Electric (CG&E) engaged Torrey Pines Technology (TPT) to perform an independent review of the Zimmer project management to determine measures needed to ensure that construction of the Zimmer plant will be completed in conformance with regulations and construction permit requirements. TPT submitted the final report to CG&E and the NRC on August 17, 1983 and identified deficiencies in the CG&E organizational structure, staffing, policies and procedures that have kept the project from satisfying the requirements for design, construction, and procurement. Recognizing these causes, TPT evaluated alternative management structures to determine the organizational changes needed to satisfactorily complete the Zimmer project.

SUMMARY OF RESULTS

Problems Identified by TPT:

The factors identified by TPT that have inhibited successful completion of the Zimmer project include:

1. CG&E and HJK had insufficient experience in order to respond in an effective manner to NRC requirements:

Contact: Gene Gallagher, OPE X-43295

> 8502080177 840619 PDR FOIA CARPENT84-151 PDR

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- 2. CG&E did not have an integrated, comprehensive set of project management:
 procedures to ensure all elements of the project were coordinated.
- Staffing for both C6&E and the subcontractor organizations was inadequate in size, experience, and training for design and construction.
- 4. CG&E management for the Zimmer project was not located on-site resulting in impaired visibility of the project to top management.
- 5. CG&E did not establish definitive policies concerning QA at Zimmer and provide a strong management message in support of quality and QA.
- 6. CG&E top management lacked adequate involvement in and commitment toward QA at Zimmer.
- A comprehensive qualification and certification program of quality personnel was not accomplished, and there was little evidence of training in advance of commencing specific work.
- 8. CG&E lacked effective control over the design function.
- 9. CG&E did not provide sufficient direction and support of a comprehensive audit program.
- 10. CGCE did not assure that quality documentation was complete, accurate, valid or retrievable.
- 11. The corrective action system was not effective from beginning until present.
- 12. The preoperational test program was unsatisfactory due to release of systems prior to the completion of construction, and due to significant design changes imposed during the preoperational program.
- In spite of improved management there is still inadequate definition of the Quality Confirmation Program itself.

TPT-Proposed Solutions:

TPT evaluated some 16 alternative organizational structures that might accomplish the main goals of establishing corporate credibility, verification of design and construction to date, rectify any deficiencies and, finally, complete construction and startup. The key consideration TPT identifies to accomplish these goals is an improved policy and attitude of management towards QA, not because CG&E is forced to do so, but because it makes good business and management sense.

In light of the problems identified, TPT recommends an organizational structure such as shown in Figure 1, attached. This would include establishing a Zimmer Project Oversight: Committee (ZPOC). It would strengthen and reorganize the Zimmer project organization within CG&E, having the Zimmer Project Manager (someone with mo prior involvement with Zimmer) direct all espects of the Zimmer project. In addition, construction management and management of the Duality Verification Program would be

performed by an outside organization. TPT also concluded "that the President of CG&E is capable of completing the job, notwithstanding the errors of the past and the widespread criticism of CG&E and its management." TPT also endorsed the Senior vice president, Nuclear Operations as an "appropriate selection to manage the activities of the Zimmer plant."

In addition to these more basic organizational recommendations, TPT also recommended to CG&E the following:

- An independent design review should be initiated immediately.
- The Board of Directors should become more involved and knowledgeable regarding key policy issues: 2.
- The Board of Directors should carefully evaluate the capabilities of all CG&E officers with direct line management responsibilities for Zimmer. 3.
- An experienced external architect-engineer/constructor (A-E/C) should be hired to perform construction management and replace the present CG&E 4. construction management.
- H. J. Kaiser (constructor) should be retained to perform all construction activities under the management of the new A-E/C. 5.
- All QA activities should be centralized under the QA group, including those activities related to the QVP, construction completion, presperational testing, start-up, and operations. The head of the quality group should reflect a strong: QA management background and 6. report to the Executive Vice President (Zimmer Project Manager).
 - Administrative activities should also be centralized under a single 7. manager.
 - A qualified external organization independent of the A-E/C should be retained to perform review/audits in the areas of design, implementation of the QVP, and records management. 8.

CG&E must now submit to Region III their recommended course of action based on TPT independent review. The licensee's recommendation is then subject to approval by the Regional Administrator per the November 12, 1982 show-rause order.

OPE COMMENTS

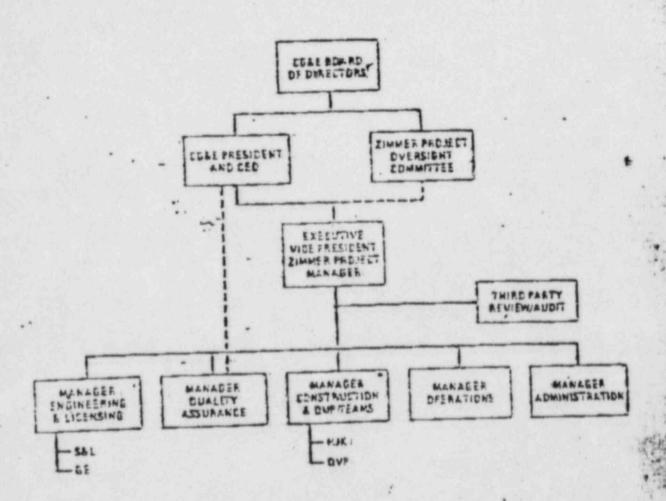
It appears that the organizational structure recommended by TPI addresses the problems identified during the course of the management review, problems which were fairly well known and previously identified by the NRC prior to the TPI independent review. The key consideration as stated by TPI is the Zimmer project management's policy, and attitude toward QA. The fundamental question then becomes whether the new ingredients will provide this commitment to quality and whether the previously responsible line managers who continue to be involved in the project have been successfully rehabilitated. TPI does not address this point but does endorse the existing 'President and the recently appointed Senior Vice President/Project Manager. We note that the TPI recommendation closely resembles the current organization in place, in that Mr. J. Williams has been appointed Senior Vice President and Zimmer Project Manager, and in that construction management and management of the QVP is being performed by Bechtel.

OPE believes that the focus of the planned September 28, 1983 briefing by TPT might include the following:

- The steps EG&E top management have taken or plan to take to establish a clear policy, attitude, and commitment towards quality throughout the organization that provides TPT confidence that EG&E can successfully complete the job.
- The basis for concluding the current President of CG&E is "capable of completing the job" and the current 21mmer Project Manager "is the appropriate selection to manage activities" in a manner consistent with regulations and requirements.
- 3. Whether CG&E has obtained the required preoperational test and startup staff to conduct adequate programs once construction is completed.

Attachment: As stated

cc: Herzel Plaine Samuel Chilk William Dircks Victor Stello Harold Denton James Keppler



PERPERIENCED EXTERNAL DAGANIZATION.

Fig. 1. Recommended Zinher project management organization

EBASCO SERVICES INCORPORATED

Two World Trade Center, New York, N.Y. 10048

EBASCO

January 19, 1984

PRINCIPAL STAFF

RA DOS DPRP

D/RA DE

A/RA DRMSP

RC DRMA

PAO SCS OIN

SGA ML

ENF FILE DOS

Mr. G. F. Cole The Cincinnati Gas & Electric Co. P.O. Box 960 Cincinnati, Ohio 45201

Subject:

Independent Audit of the Program to Verify the Quality of Construction and the Continuation of Construction Plans

Dear Mr. Cole:

Attached are two (2) copies of Ebasco's proposed contract for the subject services. This contract is intended to replace the interim contract which was concluded on December 7, 1983. We believe that it is in accordance with our understanding of the work to be performed.

After you have had an opportunity to review this proposed contract, we would be pleased to sit down and discuss any comments you might have. If you should have any questions in the meantime, please contact me at (212) 839-2714.

Very truly yours,

Manager, Quality Assurance

Sales

JWS/TZ

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JAN 23 1984

DISTRIBUTION:

cc: D. G. Eisenhut
W. M. Hill
J. G. Keppler
L. L. Kintner
J. Lieberman
E. R. Schweibinz
J. Taylor

Docket No. 50-358

Cincinnati Gas and Electric Company

ATTN: Mr. E. J. Wagner

Assistant Vice President

Engineering

139 East Fourth Street Cincinnati, Ohio 45201

Gentlemen:

This refers to the routine safety inspection conducted by Messrs. W. M. Hill, T. P. Gwynn, and E. H. Nightingale of this office on January 7, 1984, through February 10, 1984, of activities at Wm. H. Zimmer Nuclear Power Station authorized by NRC Construction Permit No. CPPR-88 and to the discussion of our findings with Mr. G. C. Ficke and others of your staff at the conclusion of the inspection.

Bulirplates 2a

R. F. Warnick, Director Office of Special Cases

Enclosure: Inspection Report

No. 50-358/84-01(0SC)

Standard Bailerplate Distribution

[U. S. Nuclear Regulatory Commission] [Region III] Report No. 50-358/84-01(05C) License No. CPPR-88 Docket No. 50-358 Licensee: Cincinnati Gas and Electric Company 139 East Fourth Street Cincinnati, Ohio 45201 Facility Name: Wm. H. Zimmer Nuclear Power Station Inspection At: Wm. H. Zimmer Nu<Site, Moscow, Ohio Inspection Conducted: January 7, 1984, through February 10, 1984 Inspectors: T. P. Gwynn DATE E. H. Nightingale DATE

DATE

Resident Site Supervisor

Reviewed: W. M. Hill, Jr.

DATE

Section 1, Office of Special Cases

Inspection Summary

Inspection during the period January 7, 1984, through February 13, 1984
(Report No. 50-358/84-01(OSC)).

Areas Inspected: Routine and reactive, unannounced inspection by the resident inspectors of Licensee action on previous inspection findings, licensee action on 10CFR50.55(e) items, Quality Confirmation Program nonconformance report review, maintenance program review, H. J. Kaiser personnel indoctrination and certification training program, personnel and organizational changes, control of site documents, maintene<ance/preservation of plant equipment, fuel so)<<storage, accidental firearm discharge, and plant tours. This inspection involved a total of 215 inspector-hours onsite by two resident inspectors and a resident site supervisor including 9 inspector-hours onsite during off-shifts.

Results: Of the eleven areas inspected, no items of noncompliance or deviations were identified.

following The Johnson 21, 1983, immunest to convert I muse to cool use. Details

1. Persons Contacted

Persons contacted are noted in Report Section I.

2. Licensee Action on Previously Identified Items

The licensee action on previously identified items are noted in Report Section I.

3. Wm. H. Zimmer Owners Decision

On January 21, 1984, the licensee announced a joint decision of the plant owners (Cincinnati Gas and Electric, Dayton Power and Light, and Columbus and Southern Ohio Electric) to convert the Zimmer Station to coal use rathern< than completing the station as a nuclear f<unit. NRC Region III was verbally notified of the Owners decisin<on on January 20, 197<84, and was formally notified by correspondence dated January 27, 1984. This inspection report is presented in two sections. Section I denotes those inspection activities of the NRC resident inspectors prior to the announcement on January 21. Section II provides the details of those inspection activities after January 21 until the conclusion of the report period.

4. Unresolved Items

Unresolved items are matters about which more information is required t<in order to ascertain whether they are acceptable items, items of noncompliance, or deviations. An unresolved item disclosed during the inspection is discussed in Details Section I, paragraph 6.

5. 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 disclosed during the inspection is discussed in d<Details Section I, paragraph 2.a.

6. Exit Interview

The inspectors met with licensee representatives (denoted in paragraph

1) throughout the month and at the conclusion of the inspection on

February 13, 1984. The inspectors summarized the scope and findings

of the inspectors ion activities. The licensee acknowledged the inspectors'

findings.

[Details]
[Section I]

1. Personnel Contacted

Cincinnati Gas and Electric Company

- J. Williams, Jr., former Senior Vice President Nuclear Operations
- G. Cole, Assistant Vice President Nuclear Projects
- *D. Cruden, Assistant Vice President Nuclear Operations
- E. Wagner, Assistant Vice President Engineering
- B. Scott, former Assistant Vice President Quality Assurance
- *G. Ficke, Manager, Nuclear Licensing Department (NLD)
- D. Hyster, Manager, PVQC and Nuclear Support Services
- J. Pearson, former Manager, Nuclear Construction Department (NCD)
- *J. Schott, Manager, Nuclear Production Department (NPD)
- *J. Shaffer, Manager, Quality Assurance Department (QAD)
- C. Foster, Manager, Administration and Training
- D. Chamberlain, former Director, Region III Interface, NLD
- G. Orlov, Director, Quality Confirmation Program (QCP)
- D. Spence, Director, Quality Engineering, QAD
- D. Rapistrom, former Director, Corrective Action and Trending, QAD
- J. Jones, Coore<dinator, QCP Task VII
- D. Hale, former Director, Maintenance, Testing, and Turnover, NCD
- D. Schulte, Director, Codes and Standards Compliance, NCD

Bechtel Power Corporation

- J. Laspa, former Depa<uty Project Director
- S. Bernsen, Manager of Quality
- G. Bell, former Project Quality Assurance Engineer

National Board of Boiler and Pressure Vessel Inspectors (NBBI)

- C. Allyson, Field Representative , NSSI
- M. Sullivan, Consultant, NBBI
- R. Holt, Consultant, NBBI

The inspectors also interviewed other licensee and contractor personnel during the course of the inspection.

*Denotes those personnel attending the monthly exit meeting.

2. Licensee Action on Previous Inspection Findings

to follow procedure in the processing of corrective action requests and failure to assure that the cause of deficiencies identified in Management Corrective Action Report 87-12 was determined and corrected.

The inspector reviewed licensee actions described and committed to in their letter responding to these items of noncompliance dated October 21, 1983. Those actions were not complete at the time of this inspection.

In particular, the inspector reviewed records of training for CG&E Quality Engineers to the requirements of the corrective action reporting procedure; reviewed records of training and qualification for reverification group (RG) personnel; reviewed activities associated with the reverification of corrective action documents (ie, Condition Evaluation Requests (CERs), etc); reviewed a licensee audit of RG activities; and reviewed the new licensee program for the handling of Corrective Action Requests (CARs) and Management Corrective Action Reports (MCARs)

(1) Documentation Reviewed

- (a) CG&E Field Audit Report No. 484
- (b) Procedure ZPM.QA.501, "Corrective Action Requests", revision O, dated January 12, 1984

- (c) Training records for two CG&E QA Engineers
- (d) Training and certification records for two RG Quality
 Engineers
- (e) Random sample of RG (M) CAR review packages for the following:
 - . MCAR 82-01 (rev. 1)
 - . CAR 81-12 (rev. 0)
 - . CER 82-268 (rev. 0)
 - . CER 82-103 (rev. 0)
 - . CAR 82-11 (rev. 0 and rev. 1)

._____CAR 81 05 (rev. 0)
._____CAR 82 11 (rev. 0) and rev. 1)

(2) Observations

- (a) The CG&E Field Audit Report indicated the need for ret<finement of the reverification checklist and identified several administrative deficiencies which were in the process of being corrected at the time of this inspection.
- (b) Review of training and certification records indicated licensee compliance with WQA<<QA program requirements and commitments.
- (c) Review of ZPM.QA.501 resulted in several items requiring resolution by the licensee as follows:
 - . The licensee response to noncompliance 358/83-12-03 states in part:

"The revised program and procedures will clarify the characteristics of problem description, disposition review for acceptability, review for reportability and verification of proper implementation." The inspector noted that the present procedure did not provide for disposition review for acceptability as committed. The procedure placed the responsibility for review for reportability under 10CFR21 and 10CFR50.55(e) tih<<wi>with the CG&E Manager, Quality Assurance, but did not provide such a review for corrective action requests.

- The inspector observed an inconsistency between a procedural requirement and the instructions provided on the Corrective Action Request form.
- The inspector requested clarification of the action statement "necessary verification activities," as used in step 5.4.4 of the procedure.

The above items were discussed with licensee personnel in a meeting on January 19, 1984. The CG&E Assistant Vice President - Quality Assurance committed to reviewing and responding to the above items in a timely manner. Procedure ZPM.QA.501 had not been implemented at the time of this inspection. These items remained open at the conclusion of the inspection period. (358/84-01-01)

(d) Review of a random sample of (M)CAR reverification packg<ages resulted in a number of minor comments \(\)

which were resolved by the licensee. No significant deficiencies were identified.

- b. (Closed) Open Item (358/82-01-35): The inspector had the following concerns regarding the Quality Confirmation Program (QCP):
 - (1) Inspections by CG&E to procedures involving ASME Code activities. Procedures failed to address or include interfaces with the "N" stamp holder (HJK) and ANI (Authorized Nuclear Inspector).
 - (2) QCP procedure interfaces were not well defined.
 - (3) Procedure 10-QA-03 states that only qualified personnel will be utilized, but not clearly evident complied with in QCP.
 - (4) QCP elements were not included in QCP Procedures.

Successful implementation, verified on a daily a
basis, of the QCP Program as well as successful completion of several of the taks<<tasks involved in the program warrants closing of these concerns. This item is closed.

c. (Closed) Unresolved Item (358/81-32-09): The inspector found a container f<of alcoholic beverage, empty beer cans, and</p> empty wine bottle, orange juice, beds, pillows, etc., above the turbine building ventilation system intake plenum (Auxiliary Building elevation 567'.<). This area had previously been noted by the inspector on several occasions to be littered with empty beer cans. This area was brought to the attention of the H. J. Kaiser Construction Project Manager who discussed the situation with the appropriate supervisors.

Numerous plant tours have been conducted by the inspector since this concern was brought to the attention of the HJK Construction Project Manager and it appears that corrective action implemented has been effective. There has been no evidene << evidence observed that indicates that alcoholic beverages are being consumed on the plant site. This item is closed.

- d. Unresolved Item (358/82-01-12): The implementation of the QCP program was verified through observation of activities and record reviews. Some problems were denoted as follows:
 - (1) The records being prepared as a result of inspection activities to Prov<cedure 19-QA-O2, "Auality Confirmation of Small Bore Piping Socket Weld Engagement", were noted to contain the inspector, printed name in lieu of applying his signature as evidence of acceptance/rejection.
 - (2) Radiographic film being generated as required by Procedure 19-QA-02 was being storag<<stored in desk drawers and

filing cabinets in field office trailers.

(3) Nonconforman. Reports were not being properly dispositioned in accordance with Procedure 15-QA-01, "Control of NRs Corrective Action".

Continuous monitoring of the QCP Program verified the successful implementation and completion of the tasks which were of concern to the inspector. This item is closed.

No items of noncompliance or deviations were identified.

5. Licensee Action of 10CFR50.55(e) Items

potential deficiency concerning operation of the RHR Heat
Exchanger in the shutdown cooling mode under certain conditions.
Inboard isolation valve, Tag No. 1E12F009, is motor operated
and energized from a single electrical distriction. This
valve is required to be remotely operated because it is located
within the primary containment and must open before full shutdown cooling can be initiated. To be in compliance with the
Criterion of redundancy and separation, supply of power for this
valve from a second electrical de<ivision must be resolved. The
licensee reported that some of the material to cr<orrect this
situation has been received onsite. Installation and testing is
to be accomplished after all material has been received and the

lifting of the Stop Work Order. This item remains open.

- b. (Open) Item M-53 (358/82-21-EE): Limitorque valve operators with SMB-000 torque switches were found to be defective. Whenv<ever the striker hits the plastic cam, the cam breaks resulting in torque switch failure. The ework will consist of replacing the switches with switches with brass cams. 126 new switches were receipt inspected (4 were damaged) and the replacement activity was scheduled to start with the release of the Stop Work Order. This item remains open pending licensee completion of rework.
- c. (Open) M-42 (358/82-12-EE): The antirotational devices on Anchor Darling valves are subject to operational failure in that under vibration conditions the antirotational collar will los<osen and slip downward. The keys providing the lock of the collar and stem would then fall out. The stem would then be free to rotate rendering the valve inoperable. The licensee performed rework activities consisting of staking the set screws to prevent them from vibrating loose and completed these actions by December 31, 1982. Subsequently it was determined that the set screws were improperly staked and nonconformance report #0-NED-83-2549-E was initiated. This item remains open pending further review of licensee actions.

d. (Open) M-44 (358/82-07-EE): During a review of an engineering change request (ECR) it was revealed that a section of piping located between two normally closed isolation valves in the residual heat removal system would be subject to temperature variations of up to 350 degrees F and possibly subjected to overstress conditions as a result of the expansion of trapped water in the isolated section of piping. The licensee intends to install relief valves upon release of the Stop Work Order. This item remains open.

No items of noncompliance or deviations ere<<were identified.

4. Quality Confirmation Program Nonconformance Report Review

a. QCP Task VII Nonconformance Report (NR) Review

The inspector reviewed three QCP Task VII NRs which reopened items previously identified on voided H. J. Kaiser NRs. These NRs had been forwarded by QCP Task VII to the resident inspector for NRC review of the disposition prior to rework or closure of the NR.

(1) NRs Q-QAD-83-0921-N and Q-QAD-83-1759-N: These NRs were reviewed by the inspector to a degree sufficient to determine that only nonessential/nonsafety-related items were included in the NR. The inspector had no further questin<ons relative to these NRs.

(2) NR Q-QAD-83-1319-E: This NR identii<fied an instrument piping hanger which previously exhibited workmanship deficiencies. The deficiencies had been reworked without documentation and were presently of indeterminate status due to rerouting of the instrument piping. The NR was dispositioned "reject" to remove the unused piping hanger from the building. This disposition was accepted by the inspector on January 26, 1984.

b. QCP Tasks I, II, Inad III NR Review

A total of 99 nonconformance reports pertaining to QCP Task I, III<, and III were reviewed puccduring this report period. The attachment to this report lists the NRs reviewed. The inspector identified no unsatisfactory conditions.

5. Maintenance Program Review

On January 13, 1984, the NRC inspectors attended a meeting with representatives of CG&E NCD, NPD, NED, and QAD, and Bechtel.

Construction During that meeting the status of development and implementation of the Preventive/Corrective Maintenance and System Layup program was discussed in detail. The following summarizes the highlights of the discussion:

- Current preventive maintenance activities were being controlled under Owners Project Procedure 8.2 and NPD procedure RE.SAD.03, "Preventive Maintenance". A Zimmer project procedure (ZPM) was in the developmental stage with implementation scheduled for April 1, 1984. To date, approximately 850 work instructions and 300 component layup worksheets had been prepared.
 - Technical requirements for system layup were specii<fied by NED
 engineers, utilizing manufacturers recommendation, and good engineering
 practice. Of 39 systems total, 37 had been reviewed for layup
 requirements and 2 were still under review. System layup
 worksheets for six systems had been approved and were in the
 process of being implemented. Those six systs<ems included the
 fire protection system, the main power system, the control rod
 drive hydraulic system, the reactor core isolation cooling system,
 the switchgear heat removal system, and the service water pump
 structure ventilation system. Work packages for layup of those
 six systems were in preparation at the time of this meeting.

- The preventive me<aintenance program was being controlled via the prime computer system onsite.
- The transfer of responsibility for preventive maintenance from
 H. J. Kaiser to Bechtel was in progress.
- The organizational relationships for the preventive maintenance program were discussed in detail.

As a result of this discussion, the NRC inspectors made several mo<< comments concerning the development of the preventive maintenance program and requested to be notified prior to the performance of any work involving disassembly of components for system d<layup (ie, low pressure core spray pump, residual heat removal pump, containment isolation valves, etc.). The licensee agreed to notify the NRC resident inspector.

No items of noncompliance or deviations were identified.

6. H. J. Kaiser Persone<nel Indoctrination and Certification Training
Program

On September 30, 1983, an individual working in the H. J. Kaiser records review program contacted the CG&E QA Manager and described two concerns related to the H. J. Kaiser QA indoctrination and certification training program. The NRC residn<ent inspectors have been following licensee activities undertaken to address those concerns.

The licensee completed a special audit of the H. J. Kaiser Indoctrination and Certification Training program on October 27, 1983 (CG&E Field Audit Report No. 479). That audit resulted in three findings which were translated to a Management Corrective Action Report (C<MCAR) and which are indicated as follows:

- (1) Missing or incomplete education/experience verification.
- (2) Lack of adequate control of forms.
- (3) Grading errors on formal certification examinations.

The H. J. Kaiser response to the MCAR included commitments to do the following:

(1) Determine the status of each certified individual's education/ experience verfici<</p>
verification and complete the verification when found to be incomplete.

(a<2)Establish a forms control program which would b<mme<<meet the

requirements of the new Zimmer Procedures Manual.

(3) Perform a 100% review of examinations previously graded to detect grading errors and take any necessary corrective actions.

The NRC inspectors conducted a preliminary review of the audit finding related to missing or incomplete education/experience verification, especially with regard to contract employees. The following summarizes the status of that review as of January 21, 1984:

- H. J. Kaiser QA records management prepared personnel requisitions, detailing the e<necessary level of education/experience and QA program requirements. These were forwarded to H. J. Kaiser purchasing.</p>
- The NRC inspectors reviewed several purchase documents (orders) for subcontracted personnel services. These documents did not identify specified education/experience and QA program requirements.
- Ds<iscussion with cognizant H. J. Kaiser personnel and a representative of one contract personnel agency revealed that a list of "Requirements for QA Document Review Personnel Supplied By Contract Agencies" was supplied in writing by H. J. Kaiser to the contract agency but that those requirements were not a part of the purchase orders. That |< list specified, in part, that all personnel supplied must meet the requirements of ANSI N45.2.6

level II; that they have 3 years or nuclear QA experience; and that a background check would be performed by the contract agency and supplied to H. J. Kaiser within two weeks of the individual's arrival onsite

Contracts with several personnel agencies were termined terminated in late 1983 and the background shecks by those agencies had not been completed at the time of contract termination. Since the background checks were not a requirement of the purchase orders, the background checks were never completed.

Since ANSI N45.2.6 requires a minimum level of education/experience in order to meet the level II requirements and sine<ce the verification of that minimum education/experience b)<<(background check) was never completed, the work performed by those unverified personnel is of indeterminate quality. Verification by H. J. Kaiser had not been completed at the conclusion of this report period. This matter remains unresolved. (358/84-01-02)

Plant Tours

The inspector conducted frequent plant tours throughout the inspection period. These tours included verification of licensee action under the NRC Show Cause Order, dated November 12, 1982, observation of maintenance activities, verification of security controls, fire reward straige, protection, cleanliness, postings, and observation of CG&E Joint Test Group activities. The inspectors observed the following:

a. CG&E/Contractor Exit Interviews

The NRC resident inspectors requested to speak with all terminating QA/QC and records review personnel after their employment exit interviews and prior to leaving the site, in other than group exit situations. This request was made in order to provide an opportunity for each individual to discuss their views and concerns with an NRC inspector, if they so desire.

Prior to their leaving the site, 11 individuals were interviewed during this inspection period by the NRC resident inspectors.

All concerns identified during these interviews will be evaluated by the NRC. This evaluation will consist of a review of the acceptability of the licensee's actions regarding concerns provided to them and an evaluation of these items that were only presented to the NRC. In addition, one individual who expressed concerns to H. J. Kaiser and CG&E management at this exit interview declined to speak with the NRC.

As a result of the January 21, 1984 announcement by CG&E a group exit situation developed. None of the individuals exiting the site after the January 21, 1984 announcement were interviewed by the NRC inspectors.

b. Overview of the CG&E Joint Test Group

The NRC senior resident inspector observed the activities of the CG&E Joint Test Group (JTG) in the preparation of a new Wm. H. Zimmer Startup Manual (SUP<M). The JTG is the approving authority for activities conducted under the Preoperational and Startup Test Program. The SUM represents the Quality Assurance Program for the Preoperational and Startup Test programs.

During this report period, the JTG made substantial progress toward the approval of the new SUM. The CG&E announcement of January 21, 1984 precluded completion of those activities.

No items of noncompliance or deviations were identified.

[Details]
[Section II]

Personnel and Organizational Changes

a. After the January 21, 1984 licensee decision to convert Zimmer to coal use, the resident inspectors observed significant personnel and management changes. By the conclusion of the report period, management changes as a result of this decision are indicated in the following:

Position	Status
Senior Vice President - Nuclear	Vacant
Assistant Vice President - Quality Assurance	Vacant
Manager, Nuclear Construction Department	Vacant
Manager, Startup and Test Department	Vacant

On January 27, 1984 Mr. E. J. Wage<ner, Assistant Vice President - Engineering, was designated as the senior CG&E representative onsite. No further management changes werde<<were indicated to the NRC resident inspectors by the conclusion of the report period.

b. As a result of the above decision, CG&E and site contractors took immediate steps to reduce the site work force. The toa<tal

number of site personnel was reduced from 2,564 on January 21, 1984, to 522 at the conclusion of the inspection period as indicated in the following:

	1/20/84	2/10/84
CG&E	436	189
Site Contractors	2,128	333
Total	2,564	522

This action represents a net reduction of 247 CG&E personnel and 1,795 contractor personnel. Further details were not available to the NRC inspectors at the conclusion of the report period; however, additional reductions were anticipated.

2. Control of Site Documents

On January 23, 1984, the NRC residnment<<resident inspectors received a report about shredding of documents at the plant site. This report was made following CG&E's January 21, 1984 announcement. The inspectors conducteed<<conducted a trou<<tour of the area where the shredding of paper was reported to have taken place. No improper activities were observed.

The NRC inspectors then reviewed the reported concern with CG&E management who took immediate steps to control the destruction of paper/

documentation onsite and to control further use of the shredder.

It was later determined by CG&E Management that one box of personal notes and correspondence belonging to the CG&E Manager, Nuclear Production Department and a former CG&E Security Supervisor had been shredded, and that Bechtel Power Corporation had been shredding personnel related co<<documents. The NRC inspectors were unable to confirm and had no reason to believe that quality related documents or records had been destroyed.

Subsequent CG&E management action taken to address this concern included the following:

- (1) On January 24, 1984, an immediate halt was called to the disposal of all site documents, memoranda, copies of correspondence, etc.
- (2) A siteww<ide audit of all trash receptacles (including dumpsters) was conducted. That audit was observed by the NRC resident inspectors.
- (3) The disposal of all trash onsite was stopped pending the development of a sitw<ewide procedure to control b<the handling and si<<disposal of Zimmer site documents.</p>
- (4) Several drafts of a procedure were prepared per item (3) above and were reviewed by the NRC resident inspectors. The final

program was not approved at the conclusion of the inspection period.

(5) Because of the moratorium on disposal of trash pending the development of an approved procedure for handling and disposal of Zimmer site documents, the site has experienced a problem with storage of trash. The licensee notified the NRC resident office on February 6, 1984 of e<their intention to bale trash for storage onsite.

The NRC inspectors are monitoring licensee activities concerning the control and handling of Zimmer site documents.

No items of noncompliance or deviations were identified.

Maintenance/Preservation of Plant Equipment

The NRC inspectors questioned the licensee's plans with regard to the maintenance/preservation/disposition of nuclear safety-related equipment. Preliminary plans being formulated by the licensee include placing the entire plant in a dry layup condition and performing a minimal amount of routine maintenance. The licensee has discussed the possibility of selling both equipment and nuclear fuel, however, no specific plans were provided.

At the conclusion of the inspection period, the licensee had not

provided detailed programs relative to their intentions.

Te<he NRC resident inspectors discussed their areas of concern and continue. It their presence onsite with licensee personnel. They acknowledged same.

No items of noncompliance or deviations were identified.

7 2. Fuel Storage (Refuel Floor, 627' Elevation, Reactor Building)

The inspector frequently verified the integrity of security controls for the new fuel storage area, and the integrity of provisions for control of the new fuel storage environment. The inspector found that the security officers present were alert and knowledgeable of the procedures in effect.

On January 26, 1984, the NRC inspector observed that monthly checks of fire protection equipment on the refuel floor had not been performed since November 1983. This deficiency was corrected by CG&E personnel. Discussion with the CG&E B
building services supervisor indicated that changing roles and responsibilities (imposed in part by the owners decision of January 21, 1984) had causedt< the noted condition.

The inspector observed a portion of a CG&E QA audit (Field Audit Replr)<<Report #492), related to the physical inventory of 10 new fuel assemblies, and subsequently reviewed the audit report. No deficiencies were identified by the audit.

No items of noncompliance or deviations were identified.

Aciccidental Firearm Discharge

a second incident in deligion

On February 10, 1984, the licensee notified the NRC resident inspectors of an accidental firearm discharge which occurred February 7, 1984.

According to the licensee's incident report, a contractro<<contractor security guard was demonstrating a technique for firing a weapon to another guard when the weapon accidentally discharges<d. (This was prohibited by the licensee's procedure for control and use of firearms.) The round fired completely penetrated the west wall of the reactor building at approximately the 635' elevation. There were no personnel injj<uries. The area was thoroughly checked and no further damage was apparent. The security guard violated the licensee's procedure SS-DPP-22, "Standr<ard Operating Procedure - Weapons Pti<< Policy", revision O, paragraph 2.1.7 which states, "Side arms shall not be drawn from their holster except during shift changes, or for use in self defense, or in accordance with Section 2.3<4.2 and 2.4.3 of this procedure" paragraph 2.1.10 which states, "Unsafe handling of weapons (horseplay) or other violations of this procedure shall be a<cause for immediate discharge f<t<of person(s) involved." Following an immediate investigation by the site security supervisor, the security guard was terminated.

All contractor security guards were subsequently rebried<fed on the weapons policy procedure, with special emphasis on the above incident and paragraphs 2.1.7 and 2.1.10 of procedure SS-DPP-22.

The NRC resident inspectors raviewed the incident with licensee management, observed the damage created by the incident, and discussed firearms policy with several contractor security guards to assure that licensee corrective actions taken were effective. Region III was notified of this incident.

No items of noncompliance or deviations were identified.

B. Plant Tours

The inspectors conducted frequent plant tours throughout the inspection period. These trour<<tours included verification of security controls, fire protection, cleanliness, postings, observation of document of the protection, and verification of record and document retention. The hambling inspector observed the following:

a. Randu<om checks of trash receptables revealed that no quality affecting documentation was being discarded. Discussion with responsible personnel indicated that QA documentation/records woud<ld continue to be handled in accordance with QA procedures.

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b. The inspector observed the plant operations staff during operation of the control rod drive hydraulic system. The system was operated to enable withdrawal of all control rods to position 48 (fully withdrawn) in parparation for removal of control rod blade guides from the reactor vessel. The control rod blade guides had been temporarily installed to provide lateral support to the control rod blades during control rod testing and were no longer needed. The licensee stated that the blade guides were on loan from and will be retun<re>retun</e>removed

No items of noncompliance or deviations were identified.

(See Section I)

[Attachment to Inspection Report 50-358/84-01]

The following Cincinnati Gas and Electric Task I nonconformance reports (dispositioned) were reviewed during this report period:

Q-QAD-82-4423-E	Q-QAD-82-4441-E R1	Q-QAD-82-4443-E
Q-QAD-82-4455-E	Q-QAD-82-4456-E	Q-QAD-82-4508-E
Q-QAD-82-4523-E R1	Q-QAD-82-4557-E	Q-QAD-82-4562-E
Q-QAD-82-4565-E	Q-QAD-82-4568-E	Q-QAD-82-4574-E
Q-QAD-82-4594-E	Q-QAD-82-4596-E	Q-QAD-82-4597-E
Q-QAD-82-4597-E	Q-QAD-82-4624-E	Q-QAD-82-4625-E
Q-QAD-82-4626-E	Q-QAD-82-4627-E	Q-QAD-82-4628-E

The following Cincinnati Gas and Electric Task I nonconformance reports (closed) were reviewed during this report period:

Q-QAD-82-4422-E	Q-QAD-82-4435-E R1	Q-QAD-82-4436-E R2
Q-QAD-82-4476-E	Q-QAD-82-4493-E	Q-QAD-82-4558-E
Q-QAD-82-4559-E	Q-QAD-82-4560-E R1	Q-QAD-82-4561-E R2
Q-QAD-82-4563-E	Q-QAD-82-4564-E	Q-QAD-82-4566-E
Q-QAD-82-4569-E	Q-QAD-82-4592-E	Q-QAD-82-4593-E
Q-QAD-82-4595-E	Q-QAD-82-4598-E	Q-QAD-82-4599-E
Q-QAD-82-4600-E	Q-QAD-82-4601-E	Q-QAD-82-4604-E
Q-QAD-82-4605-E	Q-QAD-82-4606-E	Q-QAD-82-4607-E
Q-QAD-82-4608-E	Q-QAD-82-4622-E	

The following H. J. Kaiser Task II nonconformance reports (dispositioned) were reviewed during this report period:

E-4717 E-8396 D E-9199 QD E-10,482 QD E-12,771

The following H. J. Kaiser Task II nonconformance reports (closed) were reviewed during this report period:

E-4294 R1	E-4588 QD R1	E-4708 R1	E-4842	E-4887
E-8095 D	E-8395 QD R1	E-8450 D	E-8468 D	E-8496 D
E-8540 D	E-8559 D	E-8577 D	E-8620 D	E-8728 D
E-8741 QD	E-9412 QD	E-9424 QD R1	E-9464 QD	E-9471 QD
E-9595 QD	E-9678 QD	E-9680 QD	E-9701 QD	E-9752 QD
E-9929 QD	E-9941 QD	E-9942 QD	E-9989 QD R1	E-10,038 QD
E-10,201 QD	E-10,202 QD	E-10,294 QD	E-11,212 Q	E-11,215 Q
E-11,209 QD	E-11,353 QD	E-11,610 Q	E-12,432 Q R1	E-12,581 Q
E-13,009 Q	E-13,017			

The following H. J. Kaiser Task III nonconformance reports (dispositioned) were reviewed during this report period:

E-5287

E-11,427 Q E-12,085 QD

The following H. J. Kaiser Task III nonconformance reports (closed) were reviewed during this report period:

E-8828 QD

Definition of Symbols:

D = Identified by H. J. Kaiser document R<review

Q = Related to the CG&E QCP

R = Revision