

THE CINCINNATI GAS & ELECTRIC COMPANY

WM. H. ZIMMER NUCLEAR POWER STATION

QUALITY CONFIRMATION PROGRAM (QCP)

MONTHLY REPORT

FOR

NOVEMBER 1983

SUBMITTED:

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Director - QCP

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SUMMARY

The QCP staff has reviewed each task in light of the current status and the recommendations provided by Bechtel for the transition into PVQC. A response has been provided in GC-0216 dated November 20, 1983. For those tasks which can be completed in their entirety prior to the postulated starting time for the PVQC, in-depth reviews of task progress and any restraints are being performed to ensure timely task completion. Specific restraints to task progress are being investigated and appropriate action is being taken to either eliminate the restraints or to make adjustments to the programs to allow continued progress without affecting the quality of product.

The activities of Task 1 in the drywell are an example of this effort. Restraints to our inspections of structural steel welds caused by lack of sufficient support in the area of paint removal were reduced through a coordinated effort of the QCP staff working with Bechtel, NCD and HJK. This resulted in completed inspections of welds on 99% of all structural steel beams in the drywell over the last two months and inspections have begun in areas outside the drywell.

The review of small bore pipe welding data in Task 2 and 4 is all but complete. The review of welder qualifications has stopped due to the document control indexing program instituted by Bechtel.

No progress was achieved in Task 3. The QCPP 9.19 procedure change and related training have been completed, which will provide sufficient QCP controls of our review to eliminate the concerns outlined in CG&E CAR 83-124. The purchase order review has stopped due to the document control indexing program.

Progress in Task 7 was improved this month with reassignments and relocation of task personnel. Clarification through revision of the procedures for voided NR and surveillance report reviews is expected to improve performance next month.

A draft final report for Task 8 was reviewed internally and by S&L and will be revised next month. The report to summarize Task 6 is now being reviewed and will be revised next month.

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SUMMARY Cont'd.

The results of Task 9's review to date of DDC reference on inspection reports will be issued in an interim report next month. An evaluation of these results should provide a basis for implementing procedural changes to engineering interface, construction, and inspection procedures for PVQC and CCP.

In the areas of bolting (Task 12), masonry walls (Task 13), and seismic columns (Task 14), QCP staff are continuing to work with NED in the development of reinspection criteria.

Lengthy procedure reviews of OPP 3.8 and QCPP 9.52 have impeded the re-start of the seismic interaction walkdown efforts by Task 16. This walkdown effort resumed in November in special areas only. New criteria is anticipated from S&L which will significantly reduce the scope of the walkdown.

The QCP staff has increased its attention to task progress and projected interfaces with PVQC. An internal management review program has been formally established and will provide a more timely identification and resolution of any potential procedural problems that might arise. A Procedure Coordinator has been assigned to expedite procedure development and reviews. An evaluation of our commitments to Exhibit 17 was performed to determine QCP's adherence to these commitments. A summary status of QCP conformance to Exhibit 17 action items has been prepared and is being reviewed.

TASK I: STRUCTURAL STEEL

DESCRIPTION OF CURRENT TASK

Inspections of welding on structural steel includes all structural members and their associated welds. This month the primary inspection effort was dedicated to the drywell. Inspections on beams in other Category I buildings are being performed in the service water structure.

Approximately 1,050 beams have previously been documented on "generic" nonconformance reports (NR). These beams are being reinspected and "specific" NRs are being written, where applicable, to provide additional information which is required for engineering evaluation of the welding deficiencies.

This task currently has 26 people assigned, including 16 inspectors.

PROGRESS

Welds on a total of 456 beams were inspected this month, of which 270 beams were found to have welding deficiencies. The results of these inspections and a summary of progress achieved to date are shown in the attached Table I-1 for beam inspections and NRs written. Interim reports will be issued as inspections in each area are completed.

This task is estimated to be approximately 72% complete.

Drywell inspections are scheduled to be completed by December 15, 1983 and the balance of inspections by April 30, 1984.

PROBLEMS AND CORRECTIVE ACTION

Reduced support work to QCP by Bechtel and H. J. Kaiser has decreased the production rate of cleaning of welds for inspection in the drywell and other Category I buildings resulting in an extension in the scheduled completion. Additional support effort has been requested of Bechtel.

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TABLE 1-1TASK I - SUMMARY OF STRUCTURAL STEEL INSPECTIONS

| <u>ITEM</u> | <u>TOTAL # OF ITEMS*</u> | <u>ITEMS COMPLETED THIS MONTH</u> | <u>ITEMS COMPLETED TO DATE</u> | <u>PERCENT COMPLETED THIS MONTH</u> | <u>PERCENT COMPLETED TO DATE</u> | <u>MANHOURS EXPENDED THIS MO.</u> | <u>ESTIMATED MANHOURS TO COMPLETE</u> |
|---|----------------------------------|---|--|---|--|---|---|
| Drywell | 1,084 | 425 | 1,074 | 39 | 99 | 2,125 | 1,000 |
| Aux. Bldg. | 2,497 | 0 | 2,137 | 0 | 86 | 0 | 2,160 |
| Serv. Water Bldg. | 595 | 31 | 324 | 5 | 55 | 155 | 1,626 |
| Reactor Bldg. | 1,661 | 0 | 338 | 0 | 20 | 0 | 7,938 |
| Generic NRs to reinspect (Included in above by area) | <u>1,050</u> | <u>0</u> | <u>764</u> | <u>0</u> | <u>73</u> | <u>0</u> | <u>1,716</u> |
| Totals | 5,837 | 456 | 3,873 | 11 | 72 | 2,725 | 14,440 |

* Structural steel members

NONCONFORMANCE SUMMARY

1,528 NRs written to date **

13 CERs written to date

** These NRs primarily document deviations from the erection specification associated with visually inspected structural members. A deficiency breakdown is provided below, noting that one NR can cover more than one deficiency.

DEFICIENCY BREAKDOWN

| <u>Deficiency Type</u> | <u>Conditions Identified</u> |
|------------------------|---------------------------------|
| Marking | 636 |
| Welding | 5,547 |
| Base Metal | 160 |
| Installation | 1,227 |
| Documentation | 11 |
| Reentrant Corners | 456 |
| | <u>8,037</u> |
| | Total number of Deficiencies |

TASK 11: WELD QUALITY

DESCRIPTION OF CURRENT TASK

Welder qualification records are being reviewed to ensure that proper documentation exists. NRs are being generated when deficiencies are identified during this review. To date, the total number of welder stamps (approximate number of welders) subject to review is 2,364.

Small bore piping installation packages are being reviewed for weld rod heat number traceability. Discrepancies between documentation and drawings, duplication of weld numbers, altered information on the documentation, and missing documentation are being identified on NRs.

QCP procedure for weld rod control procedures review is in the final review and approval stage.

There are currently 8 people assigned to this task.

PROGRESS

A total of 83 welder qualifications were reviewed this month. Additional defects not identified by HJK's review of these documents resulted in the writing of 16 NRs. A total of 70 small bore packages were reviewed resulting in the writing of 23 NRs.

The results for this month and a summary of task progress to date is given in Table II-1. Tables II-2 and II-3 provide a breakdown of NRs written and deficiencies identified.

This task is estimated to be approximately 89% complete.

The expected completion date for welder qualification reviews is January 31, 1984 and for filler material traceability (small bore) is December 31, 1983.

PROBLEMS AND CORRECTIVE ACTION

The necessary support work to QCP (packages for review) by Bechtel and H. J. Kaiser has decreased to zero. Measures are being taken to provide appropriate direction to Bechtel to provide the requisite support.

TABLE II-1

TASK II: SUMMARY OF WELD QUALITY REVIEWS

| <u>ITEM</u> | <u>TOTAL # OF ITEMS</u> | <u>ITEMS COMPLETED THIS MONTH</u> | <u>ITEMS COMPLETED TO DATE</u> | <u>PERCENT COMPLETED THIS MONTH</u> | <u>PERCENT COMPLETED TO DATE</u> | <u>MANHOURS EXPENDED THIS MO.</u> | <u>ESTIMATED MANHOURS TO COMPLETE</u> |
|--|---------------------------------|---|--|---|--|---|---|
| Struct. KE-1 Review | (Appx) 11,000 | 0 | (Appx) 11,000 | 0 | 100 | 0 | 200 ⁽¹⁾ |
| Lg. Bore Pipe | (Appx) 9,000 | 0 | 0 | 0 | 0 | 0 | 1,500 ⁽²⁾ |
| Welding Procedure Review | 91 ⁽³⁾⁻ | 0 | 91 ⁽³⁾ | 0 | 100 | 0 | 0 ⁽¹⁾ |
| Welder Qual. Re- review | 2,364 | 83 | 1,887 | 4 | 80 | 240 | 400 ⁽¹⁾ |
| Weld rod control | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Final review small bore pipe pkgs. | 2,693* | 70 | 2,581 | 5 | 99 | 360 | 920 ⁽¹⁾ |
| TOTAL | 25,148 | 153 | 15,659 | 3 | 90 | 600 | 3,020 |

*Based on actual count of piping line list

Notes:

- (1) Interim reports on these subtasks are being prepared.
- (2) This subtask will be performed in Task III.
- (3) This is a combination of administrative and technical reviews of welding procedures.

NONCONFORMANCE SUMMARY

987 NRs written to date**
172 CERs written to date

**Table II-2 provides the breakdown of the 261 NR's for welder qualification. 726 NR's were written for small bore filler material traceability and will be summarized next month.

TABLE 11-2

TASK 11: WELDER QUALIFICATION NONCONFORMANCES

| <u>GENERIC DEFICIENCY</u> | <u>CONDITIONS IDENTIFIED</u> |
|--|------------------------------|
| A) Unacceptable Final Signature | 1 |
| B) Incorrect Type of Bend Tests | 1 |
| C) Failure to Implement Corrective Action | 1 |
| D) Unqualified Welder Welded | 1 |
| E) Dual RT Reports | 1 |
| F) Level I RT Acceptance | 1 |
| G) Certifying Code Not Designated | 2 |
| H) Altered Information Which Now Conflicts | 3 |
| I) Discrepant Date of Certification | 4 |
| J) Test Data Conflicts with WPS | 5 |
| K) Certification of Unapproved WPS | 6 |
| L) Omitted Information | 8 |
| M) Altered Information | 9 |
| N) One Position Test/All Position Qual. | 10 |
| O) Stamp Issuance Date | 14 |
| P) Unverifiable QC Involvement | 19 |
| Q) Missing Documentation | 95 |
| R) Conflicting Information | 116 |
| | <hr/> |
| TOTAL | 277 |

Note: 261 NRs issued to date with the above 277 total conditions identified.

TASK III: HEAT NUMBER TRACEABILITY

DESCRIPTION OF CURRENT TASK

This task involves a review of small and large bore piping installation documentation for material traceability by HJK under their procedures and a 100% confirmatory review by QCP.

The purchase order review is conducted by HJK to ensure that the package is complete and to identify the validity of heat numbers for materials received on site. The QCP confirmatory review of the HJK effort had been suspended pending resolution of QCP generated deficiency documents (CERs and CARs). An interim QCP program has been developed to allow continued review of purchase order packages pending resolution of deficiency documents.

This task has 4 people assigned who are currently being trained to the interim program and are preparing an interim task report.

PROGRESS

No small bore piping packages were reviewed this month because HJK document review program is being restructured under Bechtel direction.

No purchase order packages were reviewed this month although HJK is continuing their assembly and review of these packages. Table III-1 summarizes Task III progress to date.

This task is estimated to be approximately 40% complete and is scheduled for completion by April 30, 1984. The remaining effort and completion dates need to be reviewed based on resolution of HJK efforts and schedules.

PROBLEMS AND CORRECTIVE ACTION

Review of piping installation packages for material traceability has ceased based on Bechtel's recommendations of documentation priorities. This review will continue under the proposed PVQC. The necessary support work to QCP (packages for review) by Bechtel and H. J. Kaiser has decreased to zero affecting the completion date. Measures are being taken to provide appropriate direction to Bechtel.

TABLE III-1

TASK III - SUMMARY OF HEAT NUMBER TRACEABILITY

| <u>ITEM</u> | <u>TOTAL # OF ITEMS</u> | <u>ITEMS COMPLETED THIS MONTH</u> | <u>ITEMS COMPLETED TO DATE</u> | <u>PERCENT COMPLETED THIS MONTH</u> | <u>PERCENT COMPLETED TO DATE</u> | <u>MANHOURS EXPENDED THIS MO.</u> | <u>ESTIMATED MANHOURS TO COMPLETE</u> |
|----------------------------|---------------------------------|---|--|---|--|---|---|
| Sm. Bore Doc. | 2,725 ISK | 0 | 640 | 0 | 23 | 0 | 1,200 |
| Sm. Bore Walkdown | 2,725 ISK | 0 | 2,691 | 0 | 100 | 0 | 0 ⁽²⁾ |
| Lg. Bore Doc. | 380 PSK (Appx.) | 0 | 0 | 0 | 0 | 0 | 3,300 |
| Lg. Bore Walkdown | 380 PSK (Appx.) | 0 | 0 | 0 | 0 | 0 | 1,500 |
| Purchase Order Rev. | 4,196 | 0 | (864) ⁽¹⁾ | 0 | (21) ⁽¹⁾ | 0 | 7,000 |
| Gamma Plug 50.55(e)M-56 | 403 | 0 | 403 | 0 | 100 | 0 | 0 |
| TOTAL | 10,809 | 0 | 3,734 (864) | 0 | 40 | 0 | 13,000 |

- Notes: (1) The numbers included in parenthesis indicate reviewed packages that will require re-review based on resolution of deficiency documents.
- (2) Interim reports on these subtasks are being prepared.

NONCONFORMANCE SUMMARYSmall Bore

For NRs see Table III-2
10 CERs written to date

Purchase Orders

No NRs written
15 CERs written to date

Gamma Plugs

10 NRs written

TABLE III - 2

TASK III - SMALL BORE NONCONFORMANCES

| <u>GENERIC TYPE</u> | <u>NUMBER OF NRs</u> |
|--|----------------------|
| Traceability (Ht# in field disagrees with Ht# on inst. records) | 128 |
| Design pressure discrepancy | 16 |
| Valves mislabeled | 1 |
| Code Boundry on weld/valve not designated | 1 |
| Paint removal | 6 |
| TOTALS | 152 |

TASK IV: SOCKET WELD DISENGAGEMENT

DESCRIPTION OF CURRENT TASK

The small bore documentation packages are reviewed to determine if evidence of socket disengagement was present prior to welding the joint. This review is performed by Task II personnel at the time the small bore packages are reviewed for completeness under that task.

There are no personnel assigned to this task. All manhours expended are changed to Task II.

PROGRESS

Reviews of 30 systems have been completed, with 2,681 small bore packages examined, covering 28,297 socket welds. A total of 2,693 small bore packages will be reviewed for 33 systems.

Of the 28,297 socket welds reviewed, documented evidence of disengagement was not available for 743 welds. To date 405 welds have been accepted per RT, while 130 rejected. 23 were flange welds, which were visually accepted and 31 still require RT. The remaining 154 welds were justified as being hanger attachment or seal welds, or were no longer installed. Any NRs written as a result of this task are included in the Task II summary of NRs for small bore piping.

This task is approximately 99% complete and is scheduled for completion by December 31, 1983.

PROBLEMS AND CORRECTIVE ACTION

See Task II for concern regarding small bore package review.

TASK V: RADIOGRAPHIC SHIMMING

DESCRIPTION OF CURRENT TASK

No work was performed this month. The final report for this task has been issued to and approved by the National Board and the State of Ohio. This report also has been submitted to the Nuclear Regulatory Commission (NRC) for their approval.

PROGRESS

Reviews were conducted on a total of 4,296 radiographs and the task is 100% complete.

PROBLEMS AND CORRECTIVE ACTION

Awaiting approval of the Task V Final Report by NRC Region III. No schedule date is available.

TASK VI: CABLE SEPARATION

DESCRIPTION OF CURRENT TASK

Inspections have been completed on essential, associated, and non-essential cables in selected areas to determine that appropriate electrical separation criteria were satisfied. There are currently no people assigned to this task.

PROGRESS

Over 3,000 cables, cable trays, sleeves, and floor penetrations were inspected by this task. A total of 1,236 nonconformance reports (NR) were written for separation, identification, and routing deficiencies, a more detailed summary of which is provided in Table VI-1. Additionally, 31 CER's were initiated, resulting in the issuance of 6 CAR's. A final report covering the Task VI inspections and categorizing the type of NRs issued has been prepared.

This task is approximately 99% complete and the final report was reviewed in November 1983 and will be issued in December 1983.

PROBLEMS AND CORRECTIVE ACTION

S&L has analyzing non-IE segregated code cables (connected to IE Bus) which are listed on drawing E-280 sheet 2. The analysis resulted in the issuance of DDC SLE-580 dated November 14, 1983, which reidentified these cables as associated. This reclassification requires a new inspection to ensure that the cables adhere to the more restrictive routing criteria. This inspection may be performed under the scope of the proposed PVQC.

TABLE VI - 1

| BREAKDOWN OF THE NUMBER OF NONCONFORMANCE REPORTS (NR) GENERATED BY DEFICIENCY | CG&E PROCEDURE NUMBER | | | | | TOTAL NRs BY DEFICIENCIES |
|--|-----------------------|----------|----------|-----------|---------------|---------------------------|
| | 19-QA-10 | 19-QA-31 | 19-QA-38 | QCPP 9.45 | Miscellaneous | |
| 1. Raceway to raceway - electrical separation (i.e. tray to tray) | 169 | | 204 | 1 | 12 | 386 |
| 2. Cable Separation - electrical (i.e. cable to cable, cable/panel) | 73 | 3 | 66 | | 19 | 161 |
| 3. Improper Identification (tray, conduit, cable, etc.) | 46 | 2 | 63 | 39 | 11 | 161 |
| 4. Cables not routed per design drawings | 51 | 3 | 6 | 8 | 3 | 71 |
| 5. Cables visible above tray siderails | 3 | 1 | 76 | | | 80 |
| 6. Seismic (i.e. tray to conduit, tray to pipe, etc.) | 40 | | 95 | | 35 | 170 |
| 7. Equipment not installed per design drawings | 6 | 3 | 14 | | 2 | 25 |
| 8. Damaged equipment | 16 | | 19 | | 43 | 78 |
| 9. Drawing disagreements | 7 | 2 | 8 | | 4 | 21 |
| 10. Two redundant divisions on the same hanger | 5 | | | | 2 | 7 |
| 11. Non-seismic conduit hanger in Category I Structure | 1 | | | | | 1 |
| 12. Housekeeping (debris in cable trays, etc.) | 5 | | 11 | | 5 | 21 |
| 13. Ground or shield wires not terminated | 1 | | 5 | | 2 | 8 |
| 14. Unsupported cables or conduits | 4 | 1 | 13 | 1 | 4 | 23 |
| 15. Windlace not installed on tray (for cable egress) | 3 | 1 | 5 | | | 9 |
| 16. Removed / missing tray sections | | | 5 | | | 5 |
| * 17. Minimum cable bend radius violation | | | | | 3 | 3 |
| 18. CGB fitting not a qualified fire stop | | 1 | | | | 1 |
| 19. Inadequate fire barrier inside of panel | | 1 | | | | 1 |
| 20. Conduit to valve - missile area | | | | | 1 | 1 |
| 21. Flooding problems in manholes 1-1 & 1-2 | | | | | 1 | 1 |
| 22. Inaccessible communication system | | | | | 1 | 1 |
| 23. Communication speaker mounted on cable bus | | | | | 1 | 1 |
| TOTAL NUMBER OF NR's BY PROCEDURE | 430 | 18 | 590 | 49 | 149 | 1,236 |

TASK VII: NONCONFORMANCE REPORTS

DESCRIPTION OF CURRENT TASK

H. J. Kaiser nonconformance reports (NR) that were voided in the past are reviewed to ensure that nonconforming conditions no longer exist; or new NRs are written. Surveillance reports (SR) are being reviewed to determine if nonconforming conditions were identified that still exist and, if so, an NR is written for that condition. In a similar fashion, the master punchlist will be reviewed to determine if nonconforming conditions were identified, and if they still exist, NRs will be written.

Closed NRs will be reviewed to determine if proper disposition has been made. A sample of 300 NRs has been selected at random for this review. The results of the review will determine if additional closed NRs will be reviewed. A QCP procedure will be prepared for this closed NR review.

Inspectors who previously worked at the Zimmer site will be contacted by letter to determine if they have any knowledge of specific deficiencies that should be documented as NRs.

This task currently has six people assigned.

PROGRESS

The procedure for reviewing voided NRs has been revised to reflect NRC concerns and training to the revised procedure will be completed in December.

An additional 459 SRs were reviewed this month resulting in a total of 2,006 SRs reviewed to date. Another 28 NRs were written this month based on the SR review.

Of the 141 letters sent to individuals who did not receive initial letters, 75 have been returned (addressee unknown) or responded to by the inspector. Additional effort will be made to locate the current addresses of those inspectors not reached as a result of current efforts.

Corrective action to Corrective Action Request 83-66 concerning the review of all voided NRs for potential reportability of deficiencies under 10CFR50.55(e) and 10CFR21 is in progress and now 97% complete. This function still requires a CG&E Quality Engineering review and is scheduled for completion by December 15, 1983.

Table VII-1 provides a summary of Task VII progress to date.

This task is approximately 64% complete based on current estimates. A revised manhour estimate and schedule to complete will be made in December based on the scope of the punchlist review and closed NR review. It is currently expected that the task will be completed by the end of March 1984.

PROBLEMS AND CORRECTIVE ACTION

There are no outstanding problems in this task.

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TABLE VII-1

TASK VII - SUMMARY OF NONCONFORMANCE REPORTS REVIEW

| <u>ITEM</u> | <u>TOTAL # OF ITEMS</u> | <u>ITEMS COMPLETED THIS MONTH</u> | <u>ITEMS COMPLETED TO DATE</u> | <u>PERCENT COMPLETED THIS MONTH</u> | <u>PERCENT COMPLETED TO DATE</u> | <u>MANHOURS EXPENDED THIS MO.</u> | <u>ESTIMATED MANHOURS TO COMPLETE</u> |
|-------------------------------|---------------------------------|---|--|---|--|---|---|
| Voided NR Review | 1,318 | 0 | 1,192 ⁽¹⁾ | 0 | 90 ⁽²⁾ | 90 | 300 |
| Surveillance Report Review | 3,451 ⁽³⁾ | 459 | 2,006 | 13 | 58 | 780 | 2,400 |
| Punchlist Review | 25,000 (Appx.) | 0 | 4,618 | 0 | 18 | 0 | 4,000 |
| Closed NR Review | 300 | 0 | 50 | 0 | 17 | 0 | 1,200 |
| NRs from Inspector's | Unknown | 0 | 0 | (No NRs received this month) | | | 200 |
| TOTAL | 30,069 | 459 | 7,866 | 1 | 64 | 870 | 8,100 |

NONCONFORMANCE SUMMARY

| | | |
|-------------------------|-----|-------------|
| 1. Voided NR | 267 | NRs written |
| 2. Surveillance Reports | 184 | NRs written |
| 3. Miscellaneous | 38 | NRs written |
| TOTAL | 489 | |

Notes:

- (1) This is the total number of voided NRs. The initial estimate of 1,318 was based on control numbers, for which NRs cannot be located in all cases. For this reason, letters are being written to previous inspectors.
- (2) The results of review of voided NRs still requires a Voided NR Committee review prior to final acceptance.
- (3) An additional 29 SRs were identified for review.

TASK VIII: DESIGN CONTROL & VERIFICATION

DESCRIPTION OF CURRENT TASK

Sargent and Lundy (S&L) reviewed and ensured that their procedures required design calculations for those items requiring a final verification after fabrication and/or installation. S&L also reviewed adequacy of their program for controlling deviations from the FSAR and of the correctness and consistency of the FSAR with respect to the system designs. The results of these S&L activities were reviewed and audited by QCP and Quality Assurance Department personnel.

A Task Coordinator is working part-time on this task.

PROGRESS

A draft report summarizing the investigation and corrective actions by Sargent & Lundy (S&L) and audits of this activity by CG&E was reviewed by QCP.

Revisions to S&L procedures and amendments to the FSAR have resulted from the reviews under this task concern. One CAR (83-78) on design documents deviating from the FSAR has been issued in the past. An audit needs to be performed to verify S&L's corrective action taken in response to CAR 83-78.

This task is approximately 99% complete and the final report should be completed and issued by January 15, 1984.

PROBLEMS AND CORRECTIVE ACTION

There are no problems areas at this time.

TASK IX: DESIGN DOCUMENT CHANGES

DESCRIPTION OF CURRENT TASK

This task involves reviewing inspection documents to determine that there is a positive identification of all related design document changes (DDC) for the inspected component or subsystem. Correct inspection documents should indicate that essential plant systems and their components were constructed and/or installed in accordance with the latest and correct design documents, including all approved DDCs.

Presently no DDC reviews are being performed. All efforts are being directed towards collecting supporting data and writing the interim report. Deficiency documents (NRs, DDNs, and CERs) are being analyzed to indicate the type of deficiency found and DDC examples are being collected to illustrate the problems, significant concerns, and recommendations for the report.

There are currently 6 people assigned to this task.

PROGRESS

Thirty-three DDCs were reviewed this month against the present QCPP 9.15 procedure. These were previously reviewed against the original 19-QA-15 procedure. 6,050 DDCs have been reviewed to date. 1,423 DDCs have been reviewed against the preceding procedure (19-QA-15). Of these 4,627 DDCs, 1,685 (36%) have been re-reviewed against the newer QCPP 9.15 procedure. Considering the re-review, the task is approximately 38 percent complete.

An interim report is being prepared to summarize the findings based on the document reviews and to recommend how the concerns identified by this task can be adequately addressed by the document reviews and inspections planned to be performed under the proposed PVQC. This will eliminate potentially redundant efforts by PVQC and QCP. DDC reviews have been discontinued and work is in progress on summarizing the actual DDC/inspection document review process. NR and DDN logs have been completed for Electrical and HVAC areas.

The results for this month and a summary of task progress to date is given in Table IX-1 and a deficiency document summary is given in Table IX-2.

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The expected completion date for this task is December 31, 1983 based on discontinuing the DDC review and issuing an interim report.

PROBLEMS AND CORRECTIVE ACTION

The Safety Classification (essential or non-essential) contained in the S&L Design Document Change Status Report may in some instances have discrepancies. A CER will be written to QAD recommending that S&L verify Safety Classifications for each DDC.

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TABLE IX-1

TASK IX: DESIGN DOCUMENT CHANGES

| <u>ITEM</u> | <u>TOTAL # OF ITEMS</u> | <u>ITEMS COMPLETED THIS MONTH</u> | <u>ITEMS COMPLETED TO DATE</u> | <u>PERCENT COMPLETED THIS MONTH</u> | <u>PERCENT COMPLETED TO DATE</u> | <u>MANHOURS EXPENDED THIS MO.</u> | <u>ESTIMATED MANHOURS TO COMPLETE</u> |
|--|---------------------------------|---|--|---|--|---|---|
| 1. Original DDC review per 19-QA-15 procedure | 4,627 | 0 | 4,627 | 0 | 100 | 0 | 0 |
| 2. Phase II & IIA new item reviews | 10,786 | 0 | 1,423 | 0 | 0 | 0 | 0 |
| 3. Phase II & IIA re-review of Item 1 DDCs to new procedure QCPP 9.15 | 4,627 | 33 | 1,685 | 1 | 36 | 20 | 0 |
| 4. Interim Report | - | - | - | - | - | 729 | 1,371 |
| TOTAL | 20,040 | 33 | 7,735 | 2 | 39 ⁽¹⁾ | 749 | 1,371 |

Note: (1) Based on counting 4,627 re-reviews in addition to all new reviews.

TABLE IX-2

TASK IX: DEFICIENCY DOCUMENT SUMMARY (NRs, DDNs, CERs)

| <u>PROBLEM TYPE</u> | <u>ELECTRICAL</u> | <u>MECHANICAL</u> | <u>STRUCTURAL</u> | <u>WYB</u> | <u>TOTAL</u> |
|---|-------------------|-------------------|--------------------|--------------------|----------------------|
| 1. DDC Not Verified By Review of IR | 77 | 36 ⁽¹⁾ | 277 | 146 ⁽¹⁾ | 536 ⁽¹⁾ |
| 2. IR Not Available | 16 | 0 | 386 ⁽¹⁾ | 5 | 407 ⁽¹⁾ |
| 3. Constructed to Voided DDC | 0 | 0 | 0 | 4 | 4 |
| 4. Incomplete Inspection | 4 | 0 | 20 | 2 | 26 |
| 5. Inspection Prior To DDC Being Written (As-Built) | 14 | 0 | 0 | 1 | 15 |
| 6. Program and Other Misc. Deficiencies | 134 | 0 | 32 | 10 | 176 |
| 7. CER (Generic) on: | | | | | |
| a) Inspections & Inspection Procedures | 3 | 4 | 8 | 2 | 17 |
| b) Document Control Procedures | 9 | 1 | 2 | 0 | 11 |
| c) Specific Generic DDCs | 0 | 0 | 1 | 2 | 3 |
| TOTAL (DDN & NR) | 245 | 36 ⁽¹⁾ | 715 ⁽¹⁾ | 168 ⁽¹⁾ | 1,177 ⁽¹⁾ |
| TOTAL (CER) | 12 | 5 | 11 | 4 | 32 ⁽²⁾ |
| TOTAL | | | | | 1,209 ⁽¹⁾ |

(1) Includes deficiency conditions that are being processed; these conditions were not counted in last months progress report.

(2) This count includes additional generic CERs not included last month.

TASK IX, SUBTASK III: CABLE TRAY AND
CONDUIT SUPPORT WELDING

DESCRIPTION OF CURRENT TASK

Based on a reportable item (E-20) to the NRC under 10CFR50.55(e), a reinspection program for cable tray and conduit support welding was instituted. To support the S&L evaluation program, a sample of 125 supports were inspected for weld quality. The results of these inspections were documented on NRs which S&L will evaluate for selection of hangers to be destructively tested under their program.

There are no personnel assigned to this subtask.

PROGRESS

Of the 125 supports selected, a total of 121 supports were inspected. Of these supports 35 supports (849 welds) were acceptable and 86 supports (1,281 welds) were rejected. The NRs written are being evaluated by S&L, and QCP is providing clarifications on some NRs.

Upon completion of the destructive testing and evaluation of the results, revised inspection criteria will be issued by S&L. These criteria will be used for reinspection of the cable tray and conduit supports in the main control room.

The remaining scope of this subtask must be defined, and currently there is no schedule for completion of this task.

PROBLEMS AND CORRECTIVE ACTION

None

TASK X: SUBCONTRACTOR QA PROGRAMS

DESCRIPTION OF CURRENT TASK

This task is complete and the final report has been issued as Revision 1. This report will be transmitted to the NRC in December 1983.

There are no personnel assigned to this task.

PROGRESS

There were a total of 131 QA Program reviews, formal audit reviews, and QA Program Evaluation reviews performed under this task. This review resulted in the issue of 40 CERs. This task is 100% complete, including QA documentation transfer to permanent storage facilities.

PROBLEMS AND CORRECTIVE ACTION

There are no problems with this task.

TASK XI: AUDITS

DESCRIPTION OF CURRENT TASK

This task is complete and the final report has been issued as Revision 1. This report will be transmitted to the NRC in December 1983.

There are no personnel assigned to this task.

PROGRESS

This task reviewed 324 audits of the QA programs of seven organizations and evaluated the closeout of 783 negative audit findings. This review results in the issue of two Potentially Reportable Items (PRI) and 21 CERs. This task is 100% complete, including QA documentation transfer to permanent storage facilities.

PROBLEMS AND CORRECTIVE ACTION

There are no problems with this task.

TASK XII: BOLTING

DESCRIPTION OF CURRENT TASK

Develop program(s) for reinspection of structural steel bolted connections, equipment mounting bolting (i.e., nelson studs, expansion anchors,) and equipment bolting (i.e., HVAC duct work, cable tray splice plates, pipe flange bolting).

PROGRESS

Summary of activities which relate to the progress and development of inspection procedures are listed below:

1. QCPP 9.49, "Structural Steel Bolting Inspection," was submitted into the procedure review cycle on September 14, 1983. Review comments were received on November 21, 1983 and will be incorporated by December 11, 1983.
Supporting documentation:
 - a. Rev. 1 to ZIM-RP1, "Reinspection Program to Verify Structural Steel Framing Connections," was placed in the CG&E Document Control System on October 18, 1983.
 - b. ZIM-RP11, "Reinspection Program for Field Installed Bolting Supporting Seismic Category 1 Systems and Equipment," was received from Sargent and Lundy on October 6, 1983 for QCP comment.
2. TCN to QCPP 9.47, "Quality Verification of Seismic Category 1 - Structural Steel," incorporated review comments and was reentered into procedure review cycle. Approval is expected in December.

PROBLEMS AND CORRECTIVE ACTION

Relief from the Show Cause Order is required to perform structural steel bolting inspection. The ZIM-RP11 procedure from S&L is incomplete with respect to several special bolting conditions, such as structural anchor bolts.

QCR MONTHLY REPORT
TASK XIII: MASONRY WALLS
(TASK XIV: SEISMIC COLUMNS)

DESCRIPTION OF CURRENT TASK ACTIVITIES

S&L has issued Notes of Conference on Masonry Walls held in Chicago on 10/31/83. Accordingly, the Inspection Program is defined to include the following:

1. Cracks, spalling, and mortar joint thickness
2. Verification of concrete curb inspections
3. Steel Lintels
4. Bearing plates for gallery steel
5. Statistical sampling of wall anchors
6. Verification of filled cores
7. Density verification for radiation shielding walls
8. Fireproofing the walls, both sides and tops
9. Structural angles attached to the end of walls

PROGRESS

A conference was held at the Chicago S&L office on 11/21/83 to discuss the sample size and attributes to be reviewed. The recommended agreements for this inspection program are scheduled to be issued by 12/12/83.

A demonstration of Ultrasonic Testing (UT) for masonry walls was given by Muneow & Associates. The testing could be used at the Zimmer Station. Verification of these tests and claims by the Vendor will be performed by NED.

PROBLEMS AND CORRECTIVE ACTION

The UT testing method, if used, will have to be built into the Inspection Program which will delay the schedule for implementing the program. Use of this method will save a significant amount of time and eliminate the need to destructively test the walls.

QCP MONTHLY REPORT

TASK XV: COATINGS

DESCRIPTION OF TASK

A review determined that service level one coatings as applied in the primary containment did not meet the current FSAR commitments. These coatings will be removed and a qualified coating applied.

This task is closed because no inspection of the present coatings is necessary.

TASK XVI: SEISMIC INTERACTION PROGRAM

DESCRIPTION OF CURRENT TASK ACTIVITIES

1. Walkdown procedure QCPP 9.52 was issued.
2. Walkdown personnel were trained to OPP 3.8, Rev. 3 and to QCPP 9.52, Rev. 0.
3. Indoctrination to the CG&E QA Program was given to walkdown personnel.
4. Work experience and educational background of walkdown personnel were verified and inspectors were certified to appropriate level.
5. The following restraints to resumption of the Seismic Walkdown were cleared.
 - a. MCAR-83-11 response was found satisfactory by QAD.
 - b. Audit Report 460 was closed.
 - c. A Conditional Release of SWO-83-04 was obtained on 11/29/83 to perform walkdowns of Prohibited Zones and Main Steam (D+) piping.
6. The walkdown of these two areas (5.c) started on 11/30/83 following another training session for the walkdown team.

PROGRESS

Marked-up area drawings for the Prohibited Zone have been obtained. Resolutions of the NED comments of marked-up area drawings are complete. The remaining four inspectors are being certified. Fireproof storage facilities have been obtained to store the completed walkdown records.

PROBLEMS AND CORRECTIVE ACTION

1. S&L is evaluating alternatives to the current clearance criteria that could decrease the magnitude of the required inspections. S&L was directed on November 22, 1983 to submit their recommendations based on their evaluation.
2. The current special walkdowns of non-safety related zones in Category I buildings and main steam piping is expected to take 5 weeks. Revisions to the Conservative Clearance Criteria must be accepted before any further walkdowns can take place. These further plant-wide walkdowns are of safety-related systems in Category I buildings.