

THE CINCINNATI GAS & ELECTRIC COMPANY

WM. H. ZIMMER NUCLEAR POWER STATION

QUALITY CONFIRMATION PROGRAM (QCP)

MONTHLY REPORT

OCTOBER 1983

SUBMITTED:

gmc

Director - QCP/PVQC

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SUMMARY

QCP - Emphasis in QCP is being placed on the high priority areas of structural steel inspection in the drywell and purchase order reviews to support development of a valid heat number log. All tasks were reviewed in October to assess current status and determine the necessary action to improve individual task productivity. Specific obstacles to progress were identified and either corrected or bypassed so that the task activities could proceed. This effort will continue to the conclusion of QCP activities.

During this review, task evaluations focussed on the task results obtained to date and conclusions that may be supported at this time. The intent was to define completed activities and prepare interim or final reports for the tasks. Where tasks should be redirected or stopped, this action will be taken. The objective is to complete the QCP Tasks in an orderly and expeditious manner. Specific task reports are given in the attached sheets.

MONTHLY REPORT

TASK I: STRUCTURAL STEEL

DESCRIPTION OF CURRENT TASK

Inspections of welding on structural steel now includes all structural shapes and their associated welds in addition to the wide flange beam end connection welds. The entire inspection effort is currently dedicated to the drywell. Inspection effort on beams in other Category I buildings will be performed following the effort in the drywell. The total number of beams identified for inspection in the drywell has been revised from 1,078 to 1,084 due to more accurate information.

Approximately 1,000 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 33 people assigned, including 26 inspectors.

PROGRESS

A total of 545 beams were inspected this month and 250 beams were found to have reportable deficiencies. Another 51 beams had generic NRs converted to specific NRs. These results and a summary of progress 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 approximately 61% complete based on a weighted estimate of manhours to complete.

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

PROBLEMS AND CORRECTIVE ACTION

There are currently no outstanding problems. Communication between QCP, Bechtel, and H. J. Kaiser has improved the production rate of cleaning of welds for inspection in the drywell, which was a problem at the beginning of the month.

MONTHLY REPORT

TABLE 1-1

TASK 1 - 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	533	649	49	60	2,665	6,915
Aux. Bldg.	2,497	0	2,137	0	86	0	3,600
Serv. Water Bldg.	595	12	293	2	49	60	3,080
Reactor Bldg.	1,661	0	338	0	20	0	13,230
Subtotals	5,837	545	3,417	9	59	2,725	26,825
Generic NRs to reinspect	1,000	51	764	5	73	255	1,180
TOTALS	6,837	596	4,181	9	61	2,980	28,005

NONCONFORMANCE SUMMARY

1,479 NRs written to date *

13 CERs written to date

* These NRs primarily document deviations from the erection specification associated with visually inspected structural welds.

MONTHLY REPORT

TASK II: WELD QUALITY

DESCRIPTION OF CURRENT TASK

Welder qualification records are being reviewed to ensure that proper documentation exists. NRs are being written 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. The NRs and CERs written on welder qualifications are to be addressed by a special Material Review Board Task Group.

Small bore piping installation packages are being reviewed for weld rod heat number traceability. Discrepancies between documentation and drawings, duplication of weld numbers, altered heat numbers 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 11 people assigned to this task.

PROGRESS

A total of 246 welder qualifications were reviewed this month. Additional defects not identified by HJK's review of these documents resulted in 31 NRs and 1 CER being written. A total of 460 small bore packages were reviewed with a total of 70 NRs being written.

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

This task is approximately 87% complete based on a weighted estimate of manhours to complete.

The expected completion date for this task is December 31, 1983.

PROBLEMS AND CORRECTIVE ACTION

There are currently no significant problems with this task.

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
Welder Qual. Re- review	2,364	246	1,804	10	76	360	640
Weld rod control	0	0	0	0	0	0	0
Final review small bore pipe	<u>2,725</u>	<u>460</u>	<u>2,611</u>	<u>16</u>	<u>94</u>	<u>520</u>	<u>1,280</u>
TOTAL	25,180	706	15,506	3	87	880	3,620

NONCONFORMANCE SUMMARY

824 NRs written to date

171 CERs written to date

Notes:

- (1) An interim report on this subtask is being prepared.
- (2) This subtask will be performed in Task III.
- (3) This is a combination of administrative and technical reviews of welding procedures.

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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 procedure 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 has been suspended pending resolution of QCP generated deficiency documents (CERs and CARs).

This task has 4 people assigned who are currently reviewing documentation in support of the Induction Heating Stress Improvement (IHSI) Program and resolution of restraints in the purchase order program.

PROGRESS

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

No purchase order packages were reviewed this month although HJK is continuing their assembly and review of these packages. An interim QCP program is being developed to allow continued review of purchase order packages pending resolution of deficiency documents. The interim program will be established by November 7, 1983 to permit resumption of the QCP confirmatory purchase order review. Table III-1 summarizes Task III progress to date.

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

PROBLEMS AND CORRECTIVE ACTION

The HJK effort on small bore and large bore documentation is at a standstill and requires a decision on future program direction. A meeting

between CG&E, Bechtel, and HJK, was held on October 27, 1983 to discuss Task III progress and future direction. The conclusions of this meeting will result in revised direction in November 1983 for Task III activities and provide additional guidance concerning the transition to PVQC.

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	1,233
Sm. Bore Walkdown	2,725 ISK	0	2,691	0	100	0	0
Lg. Bore Doc.	380 PSK (Appx.)	0	0	0	0	0	3,292
Lg. Bore Walkdown	380 PSK (Appx.)	0	0	0	0	0	1,500
Purchase Order Rev.	4,196	0	576 (288)	0	14 (7)	0	6,890
Gamma Plug 50.55(e)M-56	403	0	403	0	100	0	0
TOTAL	10,809	0	4,310 (288)	0	40 (3)	0	12,915

Note: The numbers included in parenthesis indicate reviewed packages that have been placed on hold and the related percentage. For example, 576 purchase orders have been completed to date, an additional 288 have been reviewed and placed on hold due to pending resolution of deficiency documents.

NONCONFORMANCE SUMMARYSmall Bore

16 NRs written to date
10 CERs written to date

Purchase Orders

No NRs written
15 CERs written to date

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 charged to Task II.

PROGRESS

Reviews of 27 systems have been completed, with 2,611 small bore packages examined, covering 27,967 socket welds. A total of 2,725 small bore packages will be reviewed for 33 systems. A total of 117 NRs were written by this task. They are currently being reviewed to ensure no duplication of nonconformances.

This task is approximately 94% complete and is scheduled for completion by December 31, 1983.

PROBLEMS AND CORRECTIVE ACTION

See Task II for concern regarding small bore package review.

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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 were performed on essential, associated, and non-essential cables in selected areas to determine that appropriate electrical separation criteria were satisfied. These inspections have been completed and currently one person is assigned to this task to prepare the final report.

PROGRESS

Over 3,000 cables, cable trays, sleeves, and floor penetrations were inspected under this task. A total of 1,236 nonconformance reports (NR) were written for separation, identification, and routing deficiencies. A final report covering the Task VI inspections and categorizing the type of NRs issued is in preparation.

This task is approximately 99% complete and the final report will be issued in November 1983 for review and comments.

PROBLEMS AND CORRECTIVE ACTION

S&L is analyzing non-IE segregated code cables (connected to IE Bus) which are listed on drawing E-280 sheet 2. When the analysis is complete, the cables which require routing restrictions will be re-identified as associated cables. The NRC has requested that these cables be inspected by QCP Task VI. This will require that a new or revised QCP procedure be developed. No schedule date for this activity is available.

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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 punch-list 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 five 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 November 1983.

An additional 224 SRs were reviewed this month resulting in a total of 1,547 SRs reviewed to date. Another 16 NRs were written this month based on the SR review.

This month 141 letters were sent to those individuals who did not originally receive initial letters. To date, 73 of these letters 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 November 15, 1983.

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

This task is approximately 60% complete based on current estimates. A revised manhour estimate and schedule to complete will be made in November based on the scope of the punchlist review and closed NR review.

PROBLEMS AND CORRECTIVE ACTION

There are no outstanding problems in this task.

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	310
Surveillance Report Review	3,422	224	1,547	6.6	45	780	920
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	30,040	224	7,407	1	60	870	6,630

NONCONFORMANCE SUMMARY

394 NRs written to date

Notes:

- (1) This is the total number of voided NRs. The initial estimate of 1,318 was based on control number for proposed NRs which did not result in NRs being issued in all cases.
- (2) The results of review of voided NRs still requires a Voided NR Committee review prior to final acceptance.

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 final report has been drafted summarizing the investigation and corrective actions by Sargent & Lundy (S&L) and audits of this activity by CG&E. This draft report currently is being 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 November 15, 1983.

PROBLEMS AND CORRECTIVE ACTION

There are no problem 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.

After the scope of the DDC is determined, the related inspection document is reviewed to confirm that the DDC was utilized as it should have been. DDCs were first reviewed in accordance with a procedure (19-QA-15) which did not specifically describe all the methods for review of each different type of DDC (particularly the voided and generic types). The present procedure (QCPP 9.15) specifically addresses all the DDC types being reviewed to ensure that meaningful conclusions can be made. A TCN (83-16) to QCPP 9.15 was written to directly involve NED in the assessment of generic DDCs, before the review form is completed by the task reviewers. Presently there are 40 generic DDCs to be reviewed in accordance with this TCN.

There are currently 7 people assigned to this task.

PROGRESS

A total of 441 DDCs were reviewed this month (including 178 which were re-reviewed against the present QCPP 9.15 procedure) resulting in one NR and 13 DDNs being generated as deficiency documents. 6,050 DDCs were reviewed to date. 1,423 DDCs have been reviewed in accordance with the present QCPP 9.15 procedure and 4,627 DDCs have been reviewed against the preceding procedure (19-QA-15). Of these 4,627 DDCs, 1652 (35%) have been re-reviewed against the newer QCPP 9.15 procedure. Considering the re-review, the task is approximately 38 percent complete.

We have determined that conclusions can now be drawn from the currently completed reviews. An interim report is being prepared to summarize the findings based on the document reviews and to recommend how this task

should be completed utilizing selected plant system inspections. DDC reviews are being discontinued and work is in progress on summarizing the actual DDC/inspection document review process. In addition, recommendations will be made for properly and quickly processing DDCs by various site organizations.

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

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 contained in the S&L Design Document Change Status Report appears to be unreliable. A CER will be written to QAD recommending that S&L determine independently the correct Safety Classifications for each DDC.

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	263	1,423	4	13	476 ⁽¹⁾	(2)
3. Phase II & IIA re-review of Item 1 DDCs to new procedure QCP 9.15	4,627	178	1,652	13	36	_(1)	0
4. Final Report	-	-	-	-	-	46	2,100
TOTAL	20,040	441	7,702	2	38 ⁽³⁾	522	(2)

Note: (1) These manhours include both item 2 (new reviews) and item 3 (re-reviews) activities.

(2) To be determined based on closeout of DDC reviews and preparation of the final report.

(3) Based on counting 4,627 re-reviews in addition to all new reviews

NONCONFORMANCE REPORTS

554 NRs written to date
207 DDNs written to date
3 CERs written to date

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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 and forwarded to S&L for their evaluation 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

This subtask is awaiting the revised criteria for inspection of the cable tray and conduit support welds.

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TASK X: SUBCONTRACTOR QA PROGRAMS

DESCRIPTION OF CURRENT TASK

This task is complete. The final report has been revised to incorporate additional review comments and has been issued as Revision 1. This report will be transmitted to the NRC in November 1983. There were no personnel assigned to this task at the end of October 1983.

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.

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TASK AUDITS

DESCRIPTION OF CURRENT TASK

This task is complete. The final report has been revised to incorporate additional review comments and was issued as Revision 1. This report will be transmitted to the NRC in November 1983. There were no personnel assigned to this task at the end of October 1983.

PROGRESS

This task reviewed 324 audits of the QA programs of seven organizations and evaluated the closeout of 783 negative audit findings. This review resulted 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.

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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. 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.
2. 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. Comment Meeting to be held in early November.
3. TCN to QCPP 9.47, "Quality Verification of Seismic Category 1 - Structural Steel," incorporated review comments and was reentered into procedure review cycle. Estimated approval date is November 4, 1983.
4. QCPP 9.49, "Structural Steel Bolting Inspection," was submitted into the procedure review cycle on September 14, 1983.

PROBLEMS AND CORRECTIVE ACTION

Relief from the Show Cause Order is required to perform structural steel bolting inspection. A letter to the NRC from NLD requesting this relief is currently in review. The ZIM-RP11 procedure from S&L is incomplete with respect to structural anchor bolts, etc. This will be discussed with NED and S&L in early November.

TASK XIII: MASONRY WALLS
(TASK XIV: SEISMIC COLUMNS)

DESCRIPTION OF CURRENT TASK

S&L has issued a preliminary document, "Reinspection Program to Verify Concrete Masonry Wall Construction" to respond to certain concerns in the NRC NET Report, issued April 19, 1982. Specific wall deficiencies were identified in the NET Report, such as collar joints, joint reinforcing, fire seals, and seismic columns. The reinspection program for this task is to assure the adequacy of Category 1 masonry walls as constructed, and to provide documented evidence that the walls can support all postulated design loads as well as perform their intended functions. Reverification is necessary for the walls which were upgraded to Category I (in November 1978), where key hanger attachments, embedments and penetrations exist.

Removal of some concrete blocks may be necessary to examine seismic columns, including their connection system. This phase is Task XIV - Seismic Columns, which at this time is an integral part of Task XIII - Masonry Walls.

PROGRESS

Work has been ongoing for the past several months to define the exact scope of the reinspection program for the masonry walls. S&L's "Reinspection Program" was reviewed and CG&E raised many questions and concerns in a letter dated October 13, 1983.

On October 31, 1983 S&L and CG&E met to review in detail S&L's approach and CG&E concerns. Use of an ultrasonic test instrument is being considered for non-destructively testing the wall composition. A document search is now being made by HJK to make available QA inspection records, purchase order records, material certifications, etc., needed to support the QCP inspections.

No task completion date is currently available.

PROBLEMS AND CORRECTIVE ACTION

S&L must update the program and define specific inspection criteria for the QCP implementing procedure. Inspection and other appropriate records do not appear to exist for these walls based on an initial HJK review. Progress for each of these two items is being monitored by QCP personnel.

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.

A QCP walkdown schedule will be developed when the Conservative Clearance Criteria to be used are finally agreed upon and issued by S&L in their Seismic Interaction Clearance Design Criteria.

PROBLEMS AND CORRECTIVE ACTION

1. Conservative Clearance Criteria seem to be quite large. S&L is evaluating alternatives to the existing four tables that could decrease this criteria, through correct use of definition tables to restate the allowable interaction distances, keeping them to a minimum. S&L have scheduled a meeting for November 11, 1983, to review their plans. Also, more allowable exclusion packages are to be made to reduce the walkdown scope.

2. Procedures and inspector qualifications are being expedited in anticipation of the walkdown start.

TASK XVI: SEISMIC INTERACTION PROGRAM

DESCRIPTION OF CURRENT TASK

The Seismic Interaction Program resulted from the requirements of Reg. Guide 1.29. To assure that the components essential to safe shut down shall perform their designed function during a safe shutdown earthquake (SSE), a design criteria was developed which consisted of defining clearances between safety-related systems with other safety and nonsafety-related systems. The program is to be based on certain criteria and plans as follows:

1. S&L provides design criteria
2. Equipment/System walkdown (Survey) by QCP
3. Program documentation by QCP and S&L
4. Resolution of all interactions by S&L (Study)
5. Definition of installation criteria in a program for new construction, provided by S&L.

As a minimum, the program will involve the evaluation of seismic movements for piping and supports, cable trays and supports, HVAC ducts and supports, electrical conduit and supports, plant equipment, concrete structures and auxiliary and structural steel. The QCP walkdown and ultimate resolution of interactions by S&L that may be required should assure that no obstructions exist to adversely affect safety-related systems and equipment.

This task currently has 40 people assigned to it, including 36 qualified inspectors.

PROGRESS

1. Overview procedure OPP 3.8, Seismic Interaction Clearance Program has been approved and issued.
2. Implementing procedure QCPP 9.52, Seismic Interaction Clearance Survey is in its final text review stage.
3. Inspector qualifications are being verified and inspectors are studying the required procedures and reports.