

Stone & Webster Michigan, Inc.
CONSTRUCTION IMPLEMENTATION OVERVIEW

- CIO -

WEEKLY REPORT

NUMBER 36

PERIOD - February 13, 1984 through February 17, 1984

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CIO REPORT NUMBER 36

I. OVERVIEW

During this reporting period, both Status Assessment (S/A) and Quality Verification Program (QVP) activities continued. There was a moderate increase in the scope of work and the number of personnel involved. This appears to be in keeping with CPCo's stated intention to proceed deliberately and maintain close control over the program.

In Module 340 (Reactor Building), S/A was ongoing for all disciplines. Commodities being assessed included concrete, structural steel, pipe whip restraints, terminations, hangers and instrumentation. QVP activities were ongoing for coatings and electrical penetration terminations. Preparations were in progress to expand both S/A and QVP work in all disciplines except architectural (coatings) which should be completed shortly.

In Module 102 (East Pipeway to Elevation 630), S/A continued for conduit/conduit supports and began for penetrations. Preparations were in progress to begin S/A for pipe whip restraints, mechanical, piping, hangers and instrumentation. There was no QVP activity in this module during this reporting period.

In Module 120 (Auxiliary Building Elevation 584), S/A was in progress for concrete and piping penetrations and preparations were underway to begin work on pipe whip restraints, conduit/conduit supports, mechanical, piping, hangers and instrumentation. There was no QVP

activity in this module during this reporting period.

In Module 410 (Turbine Building Elevation 614), CCo reported that S/A was complete since all Q commodities appeared on closed QC inspection records. CIO will verify this and, if appropriate, will discontinue further S/A related evaluation for this module.

In Module 800 (Service Water Pump House), preparations were started for S/A.

CIO has continued to monitor both preparations for and conduct of S/A and QVP activities. To date, activity has proceeded in a satisfactory manner. Additionally, the concern expressed previously relative to the Field Document Control Center (FDCC) and their ability to maintain control as work activity increased has not proven to be valid. This is discussed further in Item III.B of this report.

Other CIO activities for this period included:

- Verification of the Status Assessment Print (SAP) and Work Print (WP) Program
- MPQAD Audit Program Evaluation
- Training Program Evaluation
- Training Record Review
- NRC Commitment List Monitoring
- Spatial System Interaction Program (SSIP) Monitoring
- FCR/FCN Program Monitoring
- Follow-up on MPQAD procedures for weld inspection
- Attendance at various site meetings

- CIO actions to close open Items and NIR's as responses are received

II. ACTIVITY SUMMARY

- A. CCP Activity Monitoring
- B. SAP/WP Verification
- C. MPQAD Audit Program Evaluation
- D. Training Program Evaluation
- E. Training Record Review
- F. NRC Commitment List Monitoring
- G. SSIP Monitoring
- H. FCR/FCN Program Monitoring
- I. MPQAD Weld Inspection Procedure Follow-up

III. ACTIVITY DETAILS (Paragraphs Correspond to Items in Section II)

- A. CIO monitoring of S/A and QVP activity includes review of working documents, verification of personnel qualifications, overview of "dry runs", witnessing work in progress and monitoring of resultant documentation. As reported above, these activities are currently proceeding in a satisfactory manner. Personnel performing work have been properly qualified and are using appropriate procedures, drawings and specifications. In witnessing the work in progress, CIO's observation is that personnel understand their responsibilities and are competently accomplishing them. Results are being properly documented and processing of this documentation is satisfactory.

- B. CIO continued our verification of the SAP/WP program during this

reporting period. The process of document issue and control has continued in a satisfactory manner and in accordance with FPD-1.000, FPD-3.000 and FPG-7.500. From January 26 until February 16, 1984, CIO witnessed 100 percent of the documents issued. This amounted to 3,779 documents. Although some minor discrepancies were noted, they affected less than one percent of the documents and were corrected immediately. Based upon this, CIO has concluded that it is appropriate to discontinue direct witnessing of FDCC activities related to the SAP/WP program. CIO will continue to verify that documents in use in the field are satisfactory as part of our evaluation of Construction Completion Program (CCP) assessment activities. This verification will provide an adequate measure of continued satisfactory performance by FDCC.

- C. CIO continued the evaluation of the MPQAD audit program and completed that portion related to site auditing activities. This evaluation resulted in the issue of NIR's 015, 016 and 017 and CIO Items 058, 059 and 060 which were discussed with MPQAD management and supervision on February 13, 1984.

During our assessment, it became evident that the evaluation of site auditing activities would have to be divided chronologically into two distinct time frames; pre- and post- June of 1983. Prior to June of 1983, site audits were performed by QA personnel as an additional duty to their normal function. Without a distinct audit group, functionally responsible for site audits, it is apparent to CIO that this activity was fractionalized, not

well controlled and difficult to track. All of the NIR's noted above and two of the CIO Items (058 and 059) relate to activities conducted prior to June, 1983.

In June of 1983, a site audit group was formed and assumed responsibility for onsite auditing activities (This is in addition to audits of site activities conducted out of CPCO's Jackson Office). Once the site Audit Branch was formed, CIO found that the overall audit program improved significantly. Audits are conducted in an orderly manner, are thorough, and tracking and closure of findings has improved. CIO's evaluation of current activity of the site Audit Branch is that it is adequately organized and functioning. CIO did identify several areas in which improvements were warranted. These related to definition of responsibilities, procedural controls for tracking and statusing of audits and audit results and training certifications and records for auditors. These are documented in CIO Item Number 060.

CIO's audit program evaluation is presently continuing in other areas (Jackson, BPCO, etc.) and should be completed in approximately two months.

D. CIO attended and evaluated the following training class:

- CABLE TERMINATIONS NON CLASS 1 E (FPE-7.000)

This class was conducted in an effective manner and in accordance with FPG-2.000, "Training of Construction

Personnel" (Re: Checklist Number MP-MIS-035E-0018).

- E. CIO received and evaluated 1239 training records representing 47 personnel for S/A activity. Inconsistencies were noted during the evaluation which resulted in NIR-018 and CIO Item Number 055. The NIR was issued regarding specific discrepancies noted; the Item requests clarification of training requirements.
- F. CIO continued monitoring CPCo actions relative to the establishment of a program for tracking of NRC commitments. CPCo's partial response to CIO Item 046 was received and evaluated and is considered satisfactory provided that program implementation continues. CIO has received requests from several individuals for further definition of the introductory statement in Item Number 046 which indicated that receipt of a completed NRC commitment list was a constraint to QVP activities and a prerequisite to CCP.

In Reports 1 through 6, CIO indicated that receipt of a listing of commitments made to the NRC relative to the CCP was necessary prior to CIO release of CCP Phase I activity (S/A and QVP). On July 25, 1983, CIO received a list of commitments made to the NRC through that date which related to the CCP. CPCo indicated at that time that updates would be provided as necessary. Based upon these actions, CIO considered the item closed and subsequently released CPCo for CCP Phase I (October 11, 1983). As indicated in CIO Report Number 34, during January of 1984 CIO

was informed that responsibility for commitment list maintenance had changed and that the method for tracking of commitments was to be revised. Since all NRC commitment lists were to be consolidated into a single program and since CIO had, at that time, only received three of the lists, CIO issued Item Number 046. The information was requested to allow CIO the visibility necessary to verify the CCP related commitments would not be obscured during the period of transition to the new commitment management system.

Based upon the information provided by CPCo and CIO review of current plans and progress, CIO has concluded that no problem exists at this time. However, to the degree that CCP related commitments must remain visible and functional, CIO intends to continue monitoring the overall commitment management system development as well as CPCo actions to meet and close out specific commitments.

- G. SSIP walkdown of the Auxiliary Building continued in accordance with Mark Technology Corporation (MTC) Procedure WTP-3-Q, "Procedure for Performing Walkdowns of SSIPs/Targets". CIO witnessed 15 physical interactions analyzed. CIO evaluation of work is that it continues to be performed in accordance with procedures (Re: Checklist Number MP-MIS-0022V-21).

On February 16, 1984, CIO met with Mark Technology Corporation personnel to discuss CIO concerns relative to the amount of

detail provided in the "target list" of components which is the basis for conducting SSIP activities and MTC procedures for implementing the SSIP. MTC personnel provided CIO with a brief discussion of the SSIP Program, Procedures and Implementation. CIO has requested additional information for review. A second meeting has been tentatively scheduled for the first week in March, 1984. Contingent upon CIO review and acceptance of the information supplied by MTC, the noted potential problem should be resolved at that time.

H. In conjunction with verification of the SAP/WP process, CIO also monitored the continued processing of FCR/FCNs subsequent to lifting of the Stop Work Orders. No further problem areas have been identified and processing has continued satisfactorily. It is noted, however, that the S&W Remedial Soils Assessment Team has identified potential problems in the Resident Engineering Document Control Center (REDCC). The REDCC was previously considered outside of the scope of CIO review since documents processed through this organization did not impact CCP activity. CIO will review the results of the Remedial Soils Assessment Team when available and determine whether this continues to be the case.

I. CIO Weekly Report Number 18 indicated that MPQAD would perform welding inspections on electrical supports and equipment in accordance with PQCI EW-1.00; and that PQCI CW-1.00 would be revised to delete references to electrical and instrument welding

inspection. CIO indicated that we would monitor progress on this item when preparing checklists on PQCI revisions.

Since that report was issued, MPQAD has elected not to revise CW-1.00 and has continued using it to perform inspections of welds on electrical equipment and supports.

Based on discussions with MPQAD personnel, it is still the intention to issue EW-1.00. However, MPQAD now intends to retain the option to use CW-1.00 for welding inspections on electrical equipment and supports. Inspection of welding still remains in the specific electrical support and equipment PQCI's. However, no welding inspections are currently being performed to these and MPQAD's plan to delete welding inspections from electrical PQCI's remains unchanged. MPQAD will monitor changes to the technical requirements of the specifications to assure that EW-1.00 and CW-1.00 are correct.

Further discussion of this item is required between CIO and MPQAD. CIO has not identified a problem with the current approach but is concerned with the apparent lack of progress. Therefore, a CIO Item will be opened to actively track this item.

IV. GENERAL


- A. CIO Report Number 35, Paragraph IV.C should be corrected to read "CIO staffing remained at 31...".
- B. CIO staffing increased to 32 during this reporting period.

Resumes and affidavits for the additional person (Z. Zizak) will be forwarded to the NRC under separate cover.



V. ATTACHMENTS

- A. - CIO Item Summary
- B. - CIO Hold Point Summary
- C. - CIO NIR Summary
- D. - Meeting Summary

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MIDLAND NUCLEAR COGENERATION PLANT

NOTES: 1.  identifies changes from previous report
2. Closed items will be identified in the report for the week of closure and dropped from further reporting

CIO ITEM SUMMARY

No.	Classification	Description	Open Document/Date	CPCo Response Document/Date	Closed Document/Date	Remarks
030	Tracked Action	Need to review Vendor Equipment Verification Program - MPQAD/SMO	Report No. 5 7/18/83			
034	Tracked Action	NIR 008 issued on November 10, 1983 to address upgrading five training level codes in the System Team Training Matrix.	Report No. 22 11/14/83			
035	Tracked Action	CIO observed that dielectric isolation spacers for galvanic protection of copper pipe to galvanized steel pipe supports were missing in some areas on the Small Bore (Instrument Air) KAC System, drawing FSK-J-30-0220 Sheet 2, Rev. 7.	Report No. 22 11/14/83	CPCo Transmittal CSC-7267 2/14/84		The hardware part of this item was referred to CPCo. CIO is holding the item open pending receipt of CPCo information on use of memos to direct work.
037	Tracked Action	CIO observed that two boards with protruding nails lying in Cable Tray 1AKA019 (Q Tray) had punctured the cable jacket of a "Q" cable. The cable is Q-Channel A. 480V, MCC. NCR 000925 was issued by MPQAD on November 22, 1983. CIO will track this item to assure that corrective action (repair) has been performed to approved procedures.	Report No. 24 11/29/83			Partial response (CSC-7244 dated 1/27/84) accepted via CIO letter SWMCP-024 dated 2/3/84.

CIO ITEM SUMMARY - CONTINUATION SHEET

No.	Classification	Description	Open Document/Date	CPCo Response Document/Date	Closed Document/Date	Remarks
043	Tracked Action	CIO Phase III evaluation of architectural/civil document control measures resulted in findings listed in the Item Notification (similar conditions are identified in MPQAD MQAR-DAT-1). CIO requests CPCo's plan for addressing the problems noted and for implementing and verifying corrective action on both MQAR-DAT-1 and this item.	Item Notification Report 1/6/84	Item Notification Report 1/17/84		Ref. CPCo letter CSM-0719, 1/16/84
046	Tracked Information	CIO requests placement on distribution for documentation and procedures pertinent to the NRC Project Commitment Tracking Program, advance notice of related meeting and a schedule which addresses completion of these events.	Item Notification Report 1/18/84	Item Notification Report 2/8/84		Partial CPCo response-- Implementation to take 8 to 12 months.
048	Tracked Action	Corrective action needed to rectify an inconsistency between anchor bolt specifications C-305 and C-306.	Item Notification Report 1/18/84	Item Notification Report 2/7/84		BPCo response via letter BCCC-8987, dated 2/6/84. CIO awaiting SCN 14001 to Spec C-306.
049	Tracked Information	A CIO review of document control methods resulted in the following observations: (1) some uncontrolled specs contained controlled copies of FCRs, FCNs and SCNs; (2) Controlled documents are being "decontrolled" via a line-out method which is not proceduralized; and	Item Notification Report 1/26/84	Item Notification Report 2/3/84		CIO awaiting completion of CPCo corrective action.


CIO ITEM SUMMARY - CONTINUATION SHEET

No.	Classification	Description	Open Document/Date	CPCo Response Document/Date	Closed Document/Date	Remarks
049	(Con't.)	(3) CPCo DCC personnel are unaware of the Bechtel Ann Arbor method of identifying document transmittals as either controlled or uncontrolled.				
051	Tracked Action	CIO requests to be informed of meetings regarding the proposed plan of action to address deficiencies identified in MPQAD Audit Report No. MSA-83-7 as well as a copy of the proposed plan one week prior to its implementation.	Item Notification Report 2/3/84			
052	Tracked Information	CIO request copies of audit reports for audits performed by the NRC, CPCo and BPCo of site activities/organizations which addressed Criteria XVIII of 10CFR50 Appendix B.	Item Notification Report 2/3/84			
053	Tracked Action	As described in Section 4.2 of the CCP, CIO requests that CPCo provide a listing of all status assessment items, the respective teams' scope and their working schedule.	Item Notification Report 2/16/84			
054	Tracked Information	CIO requests to be put on controlled distribution for the following Mark Technologies documents: QA Manual, Quality Plan, Procedures, Target List and all walkdown Summaries.	Item Notification Report 2/16/84			

CIO ITEM SUMMARY - CONTINUATION SHEET


No.	Classification	Description	Open Document/Date	CPCo Response Document/Date	Closed Document/Date	Remarks
055	Tracked Information	Clarification is required regarding training requirements for area team #23/24 personnel performing status assessment of raceway completion.	Item Notification Report 2/17/84			
056	Tracked Information	During a training evaluation for PQCI C-1.50 CIO observed discrepancies in the documentation. CIO requests a review to determine what impact these items have on the training provided. CIO further requests information on how MPQAD assures that document changes are referenced on the lesson plan.	Item Notification Report 2/17/84			
057	Tracked Recommendation	CIO recommends that trainer evaluation be performed no later than that trainer's first training class taught, since this evaluation is used in approving the trainer to instruct.	Item Notification Report 2/17/84			
058	Tracked Information	CPCo should review past audits to assure that applicable 10CFR50, Appendix B criteria were adequately addressed.	Item Notification Report 2/18/84			
059	Tracked Information	CPCo should review audits performed prior to June 1983 to assure adequacy of auditing, proper close out, 10CFR50 Appendix B compliance, and objective evidence as to adequacy of the audits.	Item Notification Report 2/18/84			

CIO ITEM SUMMARY - CONTINUATION SHEET

No.	Classification	Description	Open Document/Date	CPCo Response Document/Date	Closed Document/Date	Remarks
060	Tracked Recommendation	CIO provides a series of recommendations in the following categories: 1) Management Involvement; 2) Tracking Audits/Audit Findings; and 3) Audit Personnel Training and Certification Records.	Item Notification Report 2/17/84			

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CIO HOLD POINT SUMMARY

- NOTES: 1.  identifies changes from previous report
2. Closed Hold Points will be identified in the Report for the week of closure and dropped from further reporting

No.	Description	Established Document/Date	CPCo Response Document/Date	Lifted Document/Date	Remarks
005	CPCo has committed to develop a Vendor Equipment Verification Program. Program is required before implementation of Phase II.	Report No. 18 10/17/83			
007	Evaluation of Management Review of results of Phase I activities. Evaluation is required before implementation of Phase II.	Report No. 19 10/26/83			
010	NIR 008 has been issued on November 10, 1983 to address upgrading five items in the System Team Training Matrix of the Construction Training Program. Corrective action must be completed before any walkdown assessments can be performed by the personnel involved in these training activities.	Report No. 22 11/14/83			
015	CIO has requested that the requirements for the exclusive use of chromel-alumel thermocouples and extension wires for PWHT and certification of the accuracy of the thermocouples via a C of C be reinstated in PQCI PW-1.00. Release is contingent upon CIO review and acceptance of the calibration certification.	Hold Point Notification Report 2/1/84			

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NONCONFORMANCE IDENTIFICATION REPORT SUMMARY

- NOTES: 1.  identifies changes from previous report
2. Closed NIRs will be identified in the report for the week of closure and dropped from further reporting

No.	Description	Issue Date	Response Date	Closure Date	Remarks
008	Need to upgrade five training level codes in the System Team Training Matrix.	11/10/83			
011	A conflict on the use of R symbols for re-tired FCR/FCNs on architectural drawings.	12/31/83	2/15/84	2/17/84	Response via QAR RA-00078
012	Numerous drawing/specification discrepancies revealed during Phase III, FCR/FCN CIO review at Drawing Stations 8, 10 and 13.	01/03/84	1/17/84	2/14/84	Response Via QAR RS-00106
014	As documented on CIO Evaluation No. MP-MIS-074-0001, FPD 1.000 requirement that a copy of all transmittals for "Q" listed items be transmitted to MPQAD and the Project Supplier Quality Representative was not being satisfied	01/27/84			
015	In violation of PSPG-7.1, correction fluid was used on MPQAD Audit Report No. M01-346-02.	02/17/84			
016	Contrary to their MPQAD Procedure F-1M definitions, "nonconformances" were documented as "observations" in Audit No. M01-346-02.	02/17/84			
017	The recommended corrective action for Audit finding 01F, Audit No. M01-346-02 was not implemented, yet the audit was closed out.	02/17/84			

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WEEKLY MEETING SUMMARY

Date	Meeting Title	Attendees	Discussion Topic	CIO Comments
Feb. 14 and Feb. 15, 1984	Area Team Staff Meeting	CPCo MPQAD BPCo CIO	<ol style="list-style-type: none"> 1) Priority Modules are 340J, 102 and 120D. Expect completion 3-16-84. 2) Discussed expeditious completion of construction training. 3) Discussed method for reinspection of bolt torque. 	No concerns identified.
Feb. 15, Feb. 16, and Feb. 17, 1984	Team Meetings	CPCo MPQAD BPCo CIO	<ol style="list-style-type: none"> 1) Reviewed progress of S/A in Modulè 340. 2) Discussed expeditious completion of training. 3) Estimate completion of S/A in Module 340J on 3-16-84. 4) Paint and rust not to be removed from welds for S/A. 5) MPQAD is responsible for closed items on open IRs rather than teams. 6) FDCC has been requested to issue drawings to Zack. They want to begin cutting hanger material. Inspection will be in Fabrication Shop area. 	CIO to check on items 4 and 6.

WEEKLY MEETING SUMMARY - CONTINUATION SHEET

Date	Meeting Title	Attendees	Discussion Topic	CIO Comments
Feb. 16, 1984	SSIP Meeting	CPCo MTC CIO	1) Discussed CIO concern relative to detail in SSIP "target list".	MTC to provide further information. CIO to review. Next meeting to be first week in March.
Feb. 17, 1984	QVP Status Meeting	MPQAD CIO	1) Priority modules for Turbine Roll are 800 E F & G, 340J, 102B and 120D. 2) Due to an upcoming revision to procedure E-3M, existing PQCI's can't be used after 3-7-84.	CIO to check on item 2.
Feb. 17, 1984	Subcontracts Meeting	CPCo BPCo B&W Zack CIO	B&W - Reviewed NCR status Reviewed training status Zack - Weld coupons for qualification to be visually inspected only - Closed 6 NCR's, opened none	CIO to check on Zack weld coupon examination criteria.