

Stone & Webster Michigan, Inc.

CONSTRUCTION IMPLEMENTATION OVERVIEW

- CIO -

WEEKLY REPORT

NUMBER 34

PERIOD - January 30, 1984 through February 3, 1984

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## CIO REPORT NUMBER 34

### I. OVERVIEW

During this reporting period, CIO continued our in-process reviews of the Status Assessment Print (SAP) and Work Print (WP) programs and the work being accomplished in Module 340 (Reactor Building) for Status Assessment and the Quality Verification Program (QVP). The SAP/WP programs continue to function adequately and controls are being maintained in an effective manner although, due to the rigorous document issue process, Field Document Control Center (FDCC) is experiencing some difficulty in keeping pace with user requests.

Status Assessment and QVP activities continued in Module 340 on concrete coatings and structural steel coatings. Additionally, CPCo began preparations for Status Assessment of electrical penetrations, raceways and raceway supports, whip restraints and terminations. CIO has been monitoring the ongoing work as well as the preparatory activity for those activities identified above. Ongoing work is continuing in an acceptable manner. Preparations for future work are also acceptable. Personnel are performing dry runs which are being evaluated by their supervision and management in order to avoid problems when activity begins formally. CIO observations indicate that this process is valuable and should result in minimal confusion once actual Status Assessment and QVP begin. Personnel appear knowledgeable in their disciplines and the orientation to Status Assessment and QVP requirements is effective.

Other CIO activities for this period included:

- Review of the Exception List Processing
- Evaluation of the CPCo Audit Program
- Review of Training Records
- Spatial System Interaction Program (SSIP) Monitoring
- Monitoring of Diesel Generator Activities
- Monitoring Action Relative to NRC Commitment List
- Attendance at Various Site Meetings
- CIO Actions to Close Open Items and NIR's as Responses are Received

## II. ACTIVITY SUMMARY

- A. SAP/WP Review
- B. Status Assessment/QVP Monitoring
- C. Exception List Processing Monitoring
- D. CPCo Audit Program Evaluation
- E. Training Records Review
- F. SSIP Monitoring
- G. Diesel Generator Program Monitoring
- H. NRC Commitment List Program Monitoring

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

- A. CIO continued monitoring the SAP/WP programs during this reporting period. The process of issuing documents for Status Assessment and QVP remains under control and in accordance with Procedures FPD-1.000, FPD-3.000 and FPD-7.500. As a further positive note, CIO observed that field personnel are aware of, and sensitive to, the requirements to have properly identified and controlled

documents for their work. Document users are checking for correct document dates and SAP/WP authentication stamps and this, in conjunction with the FDCC control measures, should result in continued success of these document control programs.

B. CIO continued monitoring Status Assessment and QVP activities.

To date, these are limited to Module 340 where both concrete and steel coatings are being statused and verified. Status Assessment is being performed in an acceptable manner and QVP activity, as well, continues to be acceptable and in accordance with PQCI-8.51, Rev. 4. Documentation resulting from both activities is being processed satisfactorily. Additionally, preparations for Status Assessment and QVP in the electrical discipline were monitored. Preparations include procedure review, "dry runs" and evaluation of work by supervisory/management personnel. Formal activity is expected to begin during the week of February 6 and CIO will continue our monitoring of the process at that time in order to verify satisfactory implementation.

C. In Weekly Report Number 33, CIO indicated that documents initially included on "Exception Lists" were being corrected and issued to field stations. This activity continued during this reporting period. CIO continued to monitor the work process and observed no discrepancies. Currently, the Exception Lists are nearly cleared in all disciplines except mechanical and work should be completed in the near future. Work to clear

exceptions in the mechanical discipline will commence after the Stop Work Order is lifted.

- D. On January 30, 1984, CIO initiated an evaluation of the CPCo Audit Program. Current procedures, audit reports and practices were reviewed and specific questions developed. Discussions were held with various CPCo personnel. Additional information has been requested from CPCo in order to continue the evaluation. Completion of this evaluation is expected to require an additional three to four weeks.
- E. CIO performed a sampling inspection of 704 training records representing 68 construction personnel prior to their release for Status Assessment work. The records examined were satisfactory and in compliance with FPG-2.000, Rev. 6, "Training of Construction Personnel" (Re: Checklist Number MP-MIS-001E). This brings to 313 the number of personnel available to conduct Status Assessment as activity warrants. Presently, it is expected that approximately 50 additional personnel will be assigned to Status Assessment. CIO review of their training records should, if records are satisfactory, complete the initial personnel release process for Status Assessment.
- F. 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". Of 24 physical interactions analyzed in the fuel pool, CIO witnessed all 24. CIO evaluation of work is that it continues to be

performed in a satisfactory manner (Re: Checklist No. MP-MIS-MJ-022V). However, based upon a CIO review of the MTC program, a potential problem has been identified in the amount of detail supplied in the "target list" relative to appurtenances, boundaries and plant location. A meeting has been scheduled with MTC personnel during the week of February 20, 1984 to review CIO concerns.

- G. CIO has been monitoring the TransAmerica DeLaval work for installation of the plant Emergency Diesel Generators as it is affected by the Stop Work Orders. CIO is also aware of the technical evaluation of work being accomplished by personnel at the Midland Plant and similar work being performed at other plants. To date, activities at Midland appear to be consistent with those at other locations and represent a satisfactory approach to identification and resolution of potential problems.
- H. The CPCo program for identification and control of commitments made to the NRC relative to QVP was included as a topic in CIO reports numbered 1 through 6. At that time, CIO received initial matrixes with the understanding that a commitment list of this nature was evolutionary and would change throughout the life of the plant. During January, 1984, CIO was informed that the responsibility and methodology for maintaining the list had changed and subsequently issued CIO Item Number 046 requesting information relative to current plans. Pending receipt of this information, CIO began a review



of CPCo activities and was informed that all commitments would be consolidated in a single computerized list that will serve both construction and operation and that this action would be under the cognizance of CPCo Licensing personnel at the Midland Plant site. Further, it appears that completion of this work will take six to nine months. CIO will review both the response to Item Number 046 and the progress in this area to verify that current activities will not be detrimentally affected.

#### IV. GENERAL


- A. CIO personnel staffing increased to 31 during this period. Resumes and affidavits for the two additional personnel (E. Kiehner and G. Fotiades) will be forwarded to the NRC under separate cover.
- B. A chart showing the current release status for the FCR/FCN Resolution Program is included as Exhibit 1 to this report.

#### V. ATTACHMENTS

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

STONE & WEBSTER MICHIGAN, INC.  
CONSTRUCTION IMPLEMENTATION OVERVIEW  
MIDLAND NUCLEAR COGENERATION PLANT

CIO ITEM SUMMARY

- 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

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			
032	Tracked Action	NIR 006 issued on October 28, 1983, to address administrative discrepancies in the Construction Training Records of Teams 5, 6, 8, 9, 12, 13, 16, 17, 19, 20, 25, 26 (27/28) 29, 30, 31, 32/33 and BHO staff.	Report No. 20 10/31/83			
033	Tracked Action	NIR 007 issued on November 7, 1983, to address administrative discrepancies in the Construction Training Records for Teams No. 24, Field Procurement, Subcontractor Management, Field Engineering Staff, and Construction General Services Organization.	Report No. 21 11/08/83			
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			



C10 ITEM SUMMARY - CONTINUATION SHEET

No.	Classifi- cation	Description	Open Document/Date	CPCo Response Document/Date	Closed Document/Date	Remarks
035	Tracked Action	C10 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			The hardware part of this item was referred to CPCo. C10 is holding the item open pending receipt of CPCo information on use of memos to direct work.
037	Tracked Action	C10 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 C00925 was issued by MPQAD on November 22, 1983. C10 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 C10 letter SWMCP-024 dated 2/3/84
041	Tracked Infor- mation	C10 requires CPCo plans and schedules for assuring that current activities relative to the evaluation of Phase III activities on FCRs/FCNs, vendor drawings and FSKs are completed prior to releasing the emergency diesel generators for resumption of installation work. Subsequent to review, C10 will determine method of evaluation.	Item Notifi- cation Report 1/6/84			

CIO ITEM SUMMARY - CONTINUATION SHEET

No.	Classifi- cation.	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 Notifi- cation Report 1/6/84	Item Notifi- cation Report 1/17/84		Ref. CPCo letter CSM-0719 1/16/84
045	Tracked Infor- mation	Response to CIO Item 038 was not acceptable. CIO must know what actions will be taken by CPCo to assure that work is done to Engineering documents and that a reliance on checklists does not develop.	Item Notifi- cation Report 1/18/84			
046	Tracked Infor- mation	CIO requests placement on distribution for documentation and procedures pertinent to the NRC Project Commitment Tracking Program, advance notice of related meetings and a schedule which addresses completion of these events.	Item Notifi- cation Report 1/18/84			

C10 ITEM SUMMARY - CONTINUATION SHEET

No.	Classification	Description	Open Document/Date	CPCo Response Document/Date	Closed Document/Date	Remarks
047	Tracked Recommendation	During a C10 evaluation of document control preparedness to implement the requirements of recent revisions to Procedure FPD-3.000, a number of recommendations were made. C10 was advised that these recommendations would be implemented.	Item Notification Report 1/25/84	Item Notification Report 1/31/84	Item Notification Report 2/3/84	BPCo Response via letter BCCC-8980 dated 1/31/84
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			
049	Tracked Information	A C10 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 (3) CPCo DCC personnel are unaware of the Bechtel Ann Arbor method of identifying document transmittals as either controlled or uncontrolled.	Item Notification Report 1/26/84	Item Notification Report 2/3/84		

CIO ITEM SUMMARY - CONTINUATION SHEET

No.	Classification	Description	Open Document/Date	CPCo Response Document/Date	Closed Document/Date	Remarks
050	Tracked Information	A review of documents related to Q and/or Q-interface CWP's/items and a discussion of same with CPCo personnel revealed that there is no formal direction for which Q-interface items require inspection.	Item Notification Report 1/30/84			
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 requests 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			

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MIDLAND NUCLEAR COGENERATION PLANT

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			
008	NIR 006 was issued on October 28, 1983, to address discrepancies observed during the sample inspection of 2,054 Construction Training records of 31 members of Teams 5, 6, 8, 9, 12, 13, 16, 17, 19, 20, 25, 26, (27/28), 29, 30, 31, (32/33) and BHO staff.  Corrective action must be completed before any walkdown assessments can be performed by the personnel in question.	Report No. 20 10/31/83			



CIO HOLD POINT SUMMARY - CONTINUATION SHEET

No.	Description	Established Document/Date	CPCo Response Document/Date	Lifted Document/Date	Remarks
009	<p>NIR 007 was issued on November 7, 1983, to address discrepancies observed during sample inspection of 834 Construction Training records of 18 members of Team 24, Field Procurement, Sub-Contractor Management, F. E. staff and Construction General Services Organization.</p> <p>Corrective action must be completed before any walkdown, assessments can be performed by the personnel in question.</p>	Report No. 21 11/08/83			
010	<p>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.</p> <p>Corrective action must be completed before any walkdown assessments can be performed by the personnel involved in these training activities.</p>	Report No. 22 11/14/83			
011	<p>Prior to lifting of Stop Work Orders relating to the FCR/FCN Review and Resolution Program, CIO has established a Hold Point at the conclusion of Phase II activities to evaluate the adequacy of MPQAD performance during Phase I and Phase II activities. The Hold Point encompasses all the Stop Work Orders with the exception of Stop Work Order No. FSW-36 which has been lifted by MPQAD. This Hold Point does not apply to Phase III.</p>	Report No. 23 11/22/83			




CIO HOLD POINT SUMMARY - CONTINUATION SHEET

No.	Description	Established Document/Date	CPCo Response Document/Date	Lifted Document/Date	Remarks
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
007	Administrative discrepancies in Construction Training Records for the following teams: No. 24, Field Procurement, Subcontractor Management, Field Engineering Staff, and Construction General Services Organization.	11/07/83	N/A	02/02/84	Reference BPCo letter BCCC-8750, dated 11/30/83, and CIO checklists MP-MIS-034E-0028, 0029, 0030, 0031 and 0033.
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			
012	Numerous drawing/specification discrepancies revealed during Phase III, FCR/FCN CIO review at Drawing Stations 8, 10, and 13.	01/03/84			
013	During the review of Electrical FCR/FCNs, a number of items were found nonconforming to FID 2.400.	01/26/84	01/27/84	02/02/84	CPCo response via Transmittal No. CSC-7247
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			

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WEEKLY MEETING SUMMARY

Date	Meeting Title	Attendees	Discussion Topic	CIO Comments
Jan. 31, 1984	NRC Commitments for Design	CPCo BPCo CIO	Discussed design related SAR commitments generated since July, 1980.	Specific design commitments appear to be in TERA scope rather than CIO. CIO will continue to monitor overall commitment system (Re: CIO Item Number 046).
Jan. 31, 1984	Area Team Staff Meeting	CPCo MPQAD BPCo CIO	<ol style="list-style-type: none"> <li>1) Revision 3 of training matrix is with CPCo for review.</li> <li>2) Modules 340 and 102 to receive priority treatment in next several weeks for Status Assessment</li> </ol>	CIO will review matrix when received.
Feb 1 and Feb 2, 1984	Team Mtgs.	CPCo MPQAD BPCo CIO	<ol style="list-style-type: none"> <li>1) Status Assessment "dry runs" and evaluation per electrical discipline continuing. Work to begin next week.</li> <li>2) Discussed time restraints for obtaining required signature on FCRs/FCNs.</li> <li>3) Commodity lists for Module 340 have been released by MPQAD.</li> <li>4) Whip restraint Status Assessment to begin in Module 340 next week.</li> <li>5) Standish has been released for work.</li> <li>6) Status Assessment in Module 102 to begin next week.</li> </ol>	No CIO concerns identified

WEEKLY MEETING SUMMARY - CONTINUATION SHEET

Date	Meeting Title	Attendees	Discussion Topic	CIO Comments
Feb. 3, 1984	QVP Assessment and Forecast	MPQAD CIO	1) QVP proceeding on coatings in Module 340. 2) FDCC is slow in processing documents needed for QVP.	CIO will follow FDCC progress.
Feb. 3, 1984	Quantitative Review Meeting	CPCo BPCo CIO	1) Completion status of turbine building steel prior to turbine roll.	
Feb. 3, 1984	Subcontracts Meeting	CPCo BPCo B&W Zack	B&W - Training program to be revised and submitted for approval by 2/10/84. - Single reinspection schedule to be developed.  Zack - Provided list of items requiring resolution prior to work release. - CPCo is developing NCR to replace Zack NCRs. - Training is on schedule.	CIO will evaluate B&W training program when received. CIO to review ongoing Zack training.

## EXHIBIT 1

## FCR/FCN RESOLUTION PROGRAM RELEASE STATUS

Weekly Report No. 34  
Exhibit 1

DISCIPLINE	PHASE I MPQAD	PHASE II MPQAD	PHASE II CIO	PHASE III MPQAD	PHASE III CIO
Architectural	Complete	Complete	Complete	Complete	Complete
Civil - Soils	Complete	Complete	Complete	Complete	Complete
Civil - Other than soils	Complete	Complete	Complete	Complete	Complete
Electrical	Complete	Complete	Complete	NA	NA
Mechanical	Complete	1-25-84: MPQAD notified CIO that Phase II was not ready for CIO review as previously reported.		NA	NA
I & C	Complete	Complete	Complete	NA	NA