



# STONE & WEBSTER MICHIGAN, INC.

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 Nuclear Regulatory Commission  
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March 29, 1984  
 J.O. No. 14509  
 SWM-064

Docket No. 50-329/330  
 CIO Weekly Report No. 41  
 Construction Implementation Overview  
 Midland Nuclear Power Plant

The Construction Implementation Overview (CIO) Weekly Report Number 41, for the period March 19, 1984 through March 23, 1984, is enclosed.

This report includes a summary of CIO activities for the week and open items, NIRs, and Hold Points.

*J. E. Karr*  
 J. E. Karr  
 CIO Program Manager

Enclosures

JEK:NL

cc:  
 DLQuamme, CPCo Midland (site)  
 NReichel, CPCo Midland (site)  
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Stone & Webster Michigan, Inc.  
CONSTRUCTION IMPLEMENTATION OVERVIEW

- CIO -

WEEKLY REPORT

NUMBER 41

PERIOD - March 19, 1984 through March 23, 1984

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CIO REPORT NUMBER 41

I. OVERVIEW

During this reporting period, Status Assessment (S/A), Quality Verification Program (QVP) and Hanger Reinspection Program (HRP) activities continued. Activity levels continue to increase steadily as personnel are added and the number of modules and commodities being statused or verified increases. Exhibit 1 to this report identifies the modules presently available for Construction Completion Program (CCP) Phase I activity and the ongoing work, by discipline, for S/A, QVP and HRP during this reporting period.

It should be noted that the HRP referenced above is, programmatically, not a part of the CCP. However, for purposes of CIO reporting, HRP activities have been and will continue to be reported under the general topic of the CCP. This is to provide a clear understanding of the full scope of activity underway in the plant at a given time and should provide a more complete presentation of the results of CIO assessments than would be available if this item were addressed separately.

The principal effort of CIO continues to be the ongoing assessment of CCP Phase I activity. Aside from CIO Item Number 063 (see CIO Report Number 40) field activity continues in a satisfactory manner and in accordance with procedures. CIO is continuing to follow the program integration activity for CCP which will be discussed further in Section III of this report.

In addition to CCP related assessments, during this reporting period CIO devoted significant time to the continuing evaluation of document control,

the activities of Zack and B&W and to the SSI Program of Mark Technologies Corporation (MTC). These, as well as other CIO activities which required a lower level of effort, are summarized in Section II below and details are provided in Section III.

## II. ACTIVITY SUMMARY

- A. CCP Activity Monitoring
- B. Document Control Assessments
- C. Training Program Evaluation
- D. Diesel Generator Program Follow-up
- E. Zack Weld Evaluation
- F. Spatial Systems Interaction Program (SSIP) Review
- G. B&W ASME Program Assessment
- H. NRC Commitment List Follow-up
- I. Attendance at Various Site Meetings
- J. CIO Action to Close Out Items and NIR's as Responses are Received

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

- A. CIO overviewed the CCP activity underway in each active module during this reporting period. In conducting this overview, CIO continued our previously reported practice of reviewing planning efforts, working documents and personnel qualifications, witnessing work in progress and following the processing of resultant documentation. During this period, the activities overviewed by CIO continued to be performed in a satisfactory manner. Overall, CIO concludes that the personnel performing CCP activity are conscientiously and rigorously following



procedural requirements in executing their assigned tasks.

CIO continues to follow the program integration efforts of CPCo and BPCo. These include the updating of the Material, Labor, Cost and Schedule (MLCS) data base, identification of work scopes and statusing of work completion. Progress in each of these areas has been noted and resolution of CIO concerns is attainable. CIO will continue to monitor this activity closely as it is an important element of the transition from Phase I to Phase II.

- B. During this period, CIO initiated an evaluation of document control activities at the Field Document Control Center (FDCC) and at those stations which are being prepared for future activation as reported in CIO Report Number 37. These are presently identified as stations numbered 209, 219, 309, 501 and 503. This evaluation is being conducted as an in-process review of the short and long term corrective actions provided to CIO in response to CIO Item Number 043. Additionally, the document control concerns expressed to CIO by a CPCo employee are encompassed. Discrepancies identified during this reporting period are detailed on CIO NIR's 022, 023 and 024. Completion of the evaluation and final results are expected next week.
- C. CIO attended and evaluated the following training classes:
- Verification of Electrical Raceways and Supports (FIE-9.009)
  - Field Fabrication, Repair and Erection of Structural Steel and Miscellaneous Material (Specification C-304C)

- Identification and Marking of Embeds Affected by Anchor Bolt Proximity Requirements (FIC-7.000)

The training was conducted in an effective manner and in accordance with Procedure FPG-2.000 (Re: Checklists numbered MP-MIS-035E-020, 021 and 022).

Additionally, CIO reviewed, evaluated and accepted the CPCo response to CIO Item Number 056 and subsequently closed this item.

- D. CIO is continuing to follow progress in the Diesel Generator Installation Program. Activities in this area continue to be performed satisfactorily. One area has been identified as a potential problem. The description of the interrelationship between MPQAD and BPCo for QA/QC activities or ASME related work needs to be clearly defined with respect to procedural control and code responsibility and authority. This will be documented in CIO Item Number 069.
- E. CIO initiated evaluations of the Zack welding program in the control room during this period. In-process work in the control room was observed as well as related activities. This evaluation will continue and should be completed in 2 to 3 weeks. No discrepancies have been identified to date.
- F. During this reporting period, CIO continued monitoring the SSIP. Currently, MTC has completed the initial system walkdowns and is engaged in evaluation of the Interaction Identification Sheets (IIS)

which were prepared during the walkdowns. Final walkdowns are not scheduled to begin until 1985. CIO has minor procedural questions remaining relative to the SSIP which will be addressed and resolved during April, 1984. With the resolution of these items, CIO's evaluation is that the initial phase of the SSIP was conducted satisfactorily, in a thorough manner and in accordance with requirements. Once resolution is obtained, CIO intends to close out SSIP related activity until the final walkdown program commences.

- G. CIO is continuing our evaluation of the B&W ASME III Installation Program. One CIO Item (Number 068) has been forwarded to CPCo as of this date. This item requests resolution of an apparent inconsistency in ASME code effective editions and addenda relative to installation of ASME component supports. No new items have been identified as concerns beyond those reported in CIO Report Number 40. Further review of those concerns and further evaluation of other program documents and activities are progressing.
- H. CIO continued to monitor progress in the consolidation of NRC commitments into the Correspondence and Commitment Management System. CPCo Site Management Office has validated their portion of CCP related commitments and forwarded them to CPCo Licensing for incorporation in the overall program. Overall progress is continuing satisfactorily.
- I. CIO attended those site meetings summarized in Attachment D to this report.

J. Activity related to CIO Items, Hold Points and NIR's is summarized in Attachments A, B and C respectively.

IV. GENERAL

A. CIO staffing remained at 33 during this reporting period.

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<br>7/18/83            |                                     |                      |   |
| 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<br>11/29/83          |                                     |                      | Partial response (CSC 7244 dated 1/27/84) accepted via CIO letter SWMCP-024 dated 2/3/84. Closure pending cable repair during CCP Phase II. |
| 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<br>1/6/84 | Item Notification Report<br>1/17/84 |                      | Ref. CPCo letter CSM-0719 1/16/84   |

C10 ITEM SUMMARY - CONTINUATION SHEET

| No. | Classification      | Description   | Open Document/Date                  | CPCo Response Document/Date         | Closed Document/Date                | Remarks  |
|-----|---------------------|---|-------------------------------------|-------------------------------------|-------------------------------------|--|
| 046 | Tracked Information | C10 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<br>1/18/84 | Item Notification Report<br>2/8/84  |                                     | Partial CPCo response - Implementation to take 8 to 12 months.                         |
| 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<br>1/26/84 | Item Notification Report<br>2/3/84  |                                     | C10 awaiting completion of CPCo corrective action.                                     |
| 051 | Tracked Action      | C10 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<br>2/3/84  |                                     |                                     | Partial response provided via CSC-7423 dated 3/6/84. C10 awaiting further CPCo action. |
| 052 | Tracked Information | C10 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<br>2/3/84  | Item Notification Report<br>3/12/84 | Item Notification Report<br>3/19/84 | A total of 40 audit reports have been provided by CPCo between 3/12/84 and 3/15/84.    |

CIO ITEM SUMMARY - CONTINUATION SHEET

| No. | Classification      | Description   | Open Document/Date                  | CPCo Response Document/Date         | Closed Document/Date                | Remarks |
|-----|---------------------|---|-------------------------------------|-------------------------------------|-------------------------------------|---------|
| 053 | Tracked Action      | As described in Section 4.2 of the CCP, CIO requests that CPCo provide a listing of all status assessment teams, the respective team's scope and their working schedule.  | Item Notification Report<br>2/16/84 | Item Notification Report<br>2/23/84 |                                     |         |
| 055 | Tracked Information | Clarification is required regarding training requirements for area team #23/24 personnel performing status assessment of raceway completion.  | Item Notification Report<br>2/17/84 | Item Notification Report<br>3/15/84 |                                     |         |
| 056 | Tracked Information | During a training evaluation for PQCI C-1.50, CIO observed discrepancies in the lesson plan. 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<br>2/17/84 | Item Notification Report<br>2/29/84 | Item Notification Report<br>3/19/84 |         |
| 058 | Tracked Information | CPCo should review past audits to assure that applicable 10CFR50, Appendix B criteria were adequately addressed.  | Item Notification Report<br>2/18/84 | Item Notification Report<br>3/13/84 |                                     |         |
| 059 | Tracked Information | CPCo should review audits performed prior to June 1983 to assure adequacy of auditing, proper closeout, 10CFR50 Appendix B compliance, and objective evidence as to adequacy of the audits.   | Item Notification Report<br>2/18/84 | Item Notification Report<br>3/13/84 |                                     |         |



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<br>2/17/84 | Item Notification Report<br>3/13/84 |                      |   |
| 061 | Tracked Recommendation | CIO recommends that the receipt acknowledgement copy of the Bechtel transmittal form be revised to provide for a signature/date by the recipient.   | Item Notification Report<br>3/2/84  |                                     |                      |   |
| 062 | Tracked Action         | CIO has determined that status assessment is being performed on pipe supports by personnel who have not completed required training. All personnel performing hanger support status assessment should be checked to assure they are properly qualified. Any previous supports that were assessed by unqualified personnel should be reassessed. | Item Notification Report<br>3/6/84  |                                     |                      | CPCo has requested BPCo (Ref. CSC-7424 dated 3/7/84) to perform corrective action and respond by 3/12/84. |
| 063 | Tracked Action         | During a review of referenced drawings being used for status assessment, CIO identified a number of drawing identification and revision control discrepancies.  | Item Notification Report<br>3/15/84 |                                     |                      |   |
| 064 | Tracked Recommendation | CIO recommends implementation of MPQAD plan to consolidate welding inspection requirements for electrical/instrumentation equipment and supports into PQCI's CW-1.00 and EW-1.00.   | Item Notification Report<br>3/16/84 |                                     |                      |   |




CIO ITEM SUMMARY - CONTINUATION SHEET

| No. | Classification      | Description   | Open Document/Date                  | CPCo Response Document/Date | Closed Document/Date | Remarks |
|-----|---------------------|---|-------------------------------------|-----------------------------|----------------------|---------|
| 065 | Tracked Information | CIO recommends that Zack Procedure MB-FP-7C be revised to reflect the BPCo requirement that notification of addenda retirement information for BPCo documents is provided via a Subcontractor Change Notice (SCCN).   | Item Notification Report<br>3/16/84 |                             |                      |         |
| 066 | Tracked Information | CIO recommends that Zack revise either Procedure MP-FP-18 or Procedure MP-FP-23 in order that the method used to update the welder qualification matrix be properly addressed.  | Item Notification Report<br>3/16/84 |                             |                      |         |
| 067 | Tracked Information | CIO recommends that Zack Procedure MB-FP-5 be revised to address required actions for incomplete and damaged items.   | Item Notification Report<br>3/20/84 |                             |                      |         |
| 068 | Tracked Action      | The Midland Plant FSAR (Table 3.2-4) specifies use of the 1974 Edition (no addenda) of the ASME III, Division 1 Code, Subsection NF (i.e., installation of hangers and supports for nuclear piping). A BPCo specification, as well as the B&W QA Program Manual, reference an earlier code edition in violation of ASME III, Division I, Article NA-1000 (1974 Edition). CIO requests the cause, resolution, and corrective/preventative action for this condition, as well as any potential impacts on site installations. | Item Notification Report<br>3/23/84 |                             |                      |         |

STONE & WEBSTER MICHIGAN, INC.  
 CONSTRUCTION IMPLEMENTATION OVERVIEW  
 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<br>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<br>10/26/83                |   |                      |         |
| 015 | CIO has requested that the requirements for the exclusive use of chromel-aiumel 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<br>Report 2/1/84 | Hold Point Notification<br>Report 2/10/84 |                      |         |

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

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

NONCONFORMANCE IDENTIFICATION REPORT SUMMARY

| No. | Description  | Issue Date | Response Date | Closure Date | Remarks |
|-----|--|------------|---------------|--------------|---------|
| 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 PSP G-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   |               |              |         |
| 019 | As documented on CIO Evaluation No. MP-MIS-082-0001, several discrepancies were identified on the FDDL.  | 02/29/84   |               |              |         |
| 020 | As documented on CIO Evaluation No. MP-MIS-082-0001, 4 out of 25 Distribution Change Request Forms were not properly signed in violation of FPZ-1.000.   | 03/02/84   |               |              |         |

CIO NONCONFORMANCE IDENTIFICATION REPORT SUMMARY - CONTINUATION SHEET

| No. | Description  | Issue Date | Response Date | Closure Date | Remarks   |
|-----|--|------------|---------------|--------------|---|
| 021 | During a resampling/evaluation of the Construction Training Matrix in conjunction with the closure of NIR 008, two nonconformances were identified regarding requirements for training to BPCo field procedures. | 03/12/84   |               |              | Corrective action was initiated at the time of the evaluation in the form of changes to the appropriate matrices. |
| 022 | At work Print Station 219, CIO reviewed 80 out of 1116 documents. 20 documents were found discrepant, as described in the NIR.   | 03/23/84   |               |              |   |
| 023 | At Work Print Station 209, CIO reviewed 80 out of 1116 documents. 23 documents contained discrepancies, as described in the NIR.   | 03/23/84   |               |              |   |
| 024 | At Document Control Station 501, CIO reviewed 200 out of 5533 drawings. A total of 13 discrepancies were identified, as described in the NIR.  | 03/23/84   |               |              |   |



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

WEEKLY MEETING SUMMARY

| Date                                   | Meeting Title           | Attendees                    | Discussion Topic  | CIO Comments  |
|--|-------------------------|------------------------------|---|---|
| March 20, 1984                         | HRP Status Meeting      | MPQAD<br>CIO                 | 1) MLCS being updated to reflect hangers in each module   | No CIO concerns identified.   |
| March 20, 1984                         | Area Team Staff Meeting | CPCo<br>MPQAD<br>BPCo<br>CIO | 1) Requesting more Ann Arbor support for large "Q" items  | No CIO concerns identified.   |
| March 20, 1984                         | Group Staff Meeting     | CPCo<br>MPQAD<br>BPCo<br>CIO | 1) Training updates continuing<br>2) MLCS being updated<br>3) Discussed possible release of additional modules for CCP Phase I  | No CIO concerns identified.   |
| March 21, 1984                         | CCP                     | CPCo<br>BPCo<br>CIO          | 1) Discussed concerns expressed by CIO relative to integration of CCP Phase I activities, training and documentation  | CIO is continuing to follow this topic.   |
| March 21, March 22, and March 23, 1984 | Team Meetings           | CPCo<br>MPQAD<br>BPCo<br>CIO | 1) Raceway MLCS update ahead of other disciplines<br>2) Document Control Station 501 is usable for all electrical & main station for area teams<br>3) Training is being completed expeditiously<br>4) Teams to get all 'Q Lists' back from MPQAD by 6-84<br>(continued) | CIO is evaluating Document Control at this time.<br>No CIO concerns identified. |

WEEKLY MEETING SUMMARY - CONTINUATION SHEET

| Date   | Meeting Title          | Attendees                    | Discussion Topic   | CIO Comments                |
|--|------------------------|------------------------------|--|-----------------------------|
| March 21,<br>March 22,<br>and<br>March 23,<br>1984 | Team Meetings          | CPCo<br>MPQAD<br>BPCo<br>CIO | (continued)<br>5) MLCS is being updated<br>6) S/A to begin in Control Room first week in April if release is approved by the NRC<br>7) Diesel Generator work may start on 5-1-84, S/A should start 4-1-84  |                             |
| March 21,<br>1984                                  | CCP Overview           | NRC<br>CIO                   | 1) Discussed general CIO evaluation of CCP progress to date<br>2) Agreed to meet bimonthly for coordination and information exchange   | No CIO concerns identified. |
| March 23,<br>1984                                  | QVP Assessment Meeting | MPQAD<br>CIO                 | 1) Discussed status and progress of QVP<br>2) QVP is performing satisfactorily to date<br>3) Number of drawing revisions is high<br>4) Craft cooperation for QVP is good   | No CIO concerns identified. |
| March 23,<br>1984                                  | Subcontracts Meeting   | CPCo<br>BPCo<br>B&W<br>Zack  | B&W - May remove up to 28 snubbers<br>- Unit 1 upgrade to begin by 4-6-84<br>- Hanger reinspections are ongoing, 7 are complete<br>- Will have 4 inspectors qualified by 3-29-84<br><br>Zack - Drawing issue process is slow<br>- Closed 4 NCR's, opened 0 | No CIO concerns identified. |

CCP PHASE I ACTIVITY

March 19 - March 23, 1984

| MODULE  | S/A  | QVP  | HRP **     |
|---|--|--|------------|
| 102<br>East Pipeway to<br>Elevation 630                 | Hangers<br>Mechanical<br>I & C<br>Electrical       | Instrumentation<br>Mechanical<br>Electrical                        | Mechanical |
| 120<br>Auxiliary Building<br>Elevation 584              | Mechanical<br>I & C<br>Electrical                  | Mechanical<br>Electrical   | Mechanical |
| * 180<br>Auxiliary Building<br>Elevation 704 &<br>above | Mechanical   | Mechanical   |            |
| 200<br>Control Tower &<br>Electrical<br>Penetrations    |  | Architectural  |            |
| 340   | Civil Hangers<br>Mechanical<br>I & C<br>Electrical | Electrical Civil<br>Architectural<br>Mechanical<br>Instrumentation |            |
| 410<br>Turbine Building<br>Elevation 614                |  |  |            |
| * 420<br>Turbine Building<br>Elevation 634              | Civil  |  |            |
| * 430<br>Turbine Building<br>Elevation 659              | Civil  |  |            |
| * 620<br>Turbine Building<br>Elevation 634              | Civil  |  |            |
| * 630<br>Turbine Building<br>Elevation 659              | Civil  |  |            |
| 800<br>Service Water<br>Pump House                      | Electrical<br>Whip Restraints                      | Civil<br>Electrical<br>Mechanical<br>Instrumentation               |            |

\*Released for partial systems only

\*\* HRP is also active in modules  
130, 140 and 150