



STONE & WEBSTER MICHIGAN, INC.

P.O. Box 2325, BOSTON, MASSACHUSETTS 02107

| PRINCIPAL STAFF | | | |
|-----------------|----|------|----|
| ✓ | LA | | |
| D/FA | | | |
| M/FA | | | |
| PC | | | |
| PRO | | | |
| SGA | | | |
| ENF | | File | LA |

Mr. J. G. Keppler, Administrator, Region III
Nuclear Regulatory Commission
799 Roosevelt Road
Glen Ellyn, IL 60137

November 14, 1983
J. O. No. 14509
NRC File #83-11-14

RE: DOCKET NO. 50-329/330
MIDLAND PLANT - UNITS 1 AND 2
OVERVIEW OF THE CONSTRUCTION COMPLETION PROGRAM
REPORT NO. 22

A copy of the Construction Implementation Overview Report No. 22 for the period November 7, 1983 through November 11, 1983 is enclosed with this report. No Management Review Committee Meetings were held during this reporting period.

Evaluations of CCP activities and matrices of Observations, NIRs and Hold Points are attached.

Very truly yours,

S. W. Baranow
Program Manager

SWB/ka

cc: JHarrison, US NRC Glen Ellyn, IL
RCook, US NRC Midland (site)
DQuamme, CPCo Midland (site)
RBKelly, S&W
APAmoruso, S&W
RGBurns, S&W

NOV 21 1983

Report No. 22

November 7, 1983 through November 11, 1983

Personnel on Site

Stone & Webster Michigan, Inc.

A. Amoruso
S. Baranow
F. Bearham
J. Barr
R. Carpeggiani
J. Chawla

D. Cooke
R. Corson
J. Langston
C. Marrs
D. MacBay
T. Parker

R. Scallan
J. Seely
W. Sienkiewicz
A. Smith
W. Taylor
J. Thompson
G. Foley (temporary)

Meetings Attended

Date

Attendees

Purpose

November 7, 1983
through
November 10, 1983

Consumers Power Company
Bechtel Power Company
Stone & Webster CIO
MPQAD

Daily Staff
Management Meetings

November 7, 1983
through
November 10, 1983

Consumers Power Company
Bechtel Power Company
Stone & Webster CIO

Team Meetings

November 8, 1983

Consumers Power Company
Bechtel Power Company
MPQAD
Stone & Webster CIO

QVP Status
Assessment

November 8,9,10, 1983

Consumers Power Company
Bechtel Power Company
MPQAD
Zack
Stone & Webster CIO

Area Team and
System Team
Review Meeting

November 10, 1983

US NRC
Consumers Power Company
Stone & Webster CIO/Soils
Public

Monthly Meeting

Meetings

November 7, through November 10, 1983 - during this period, CIO attended daily meetings with staff management and staff supervision.

The Stop Work Orders issued by MPQAD continue to be the prime topic of discussion. Also at these meetings, details of current status and proposed actions are described as well as the logistics to resolve the problems in a timely manner.

Subjects discussed at the daily staff management meetings were:

- Stop Work Orders
- Status of NCR Dispositions
- Cause of delays in dispositioning/closing NCRs
- Review of Audit Findings
- Discussions of NRC Concerns
- Document Control Activities
- Preheat vs L. P. Inspection
- Status of procedure approval and Issuance
- Computer down time
- Administrative Activities
- Manpower requirements and loading
- MPQAD took exception to a root cause and preventative action assigned to them.

NCR # C 00708 addressed an arc strike observed on a fabrication produced at the Standish Fabrication Plant.

The arc strike was apparently minute but required some work to ensure that no crack was present.

The disposition included a recommendation that MPQAD inspection personnel receive additional training in the evaluation of arc strikes.

MPQAD took exception to this disposition on the basis that arc strikes are caused by construction personnel and the prevention of arc strikes is a construction responsibility.

November 7, 1983 through November 10, 1983 - CIO personnel assigned to respective teams, attended team meetings for discussions of:

- mock status assessment to begin week of November 14, 1983
- review of status of open items
- status of Raceway/Cable packages
- mock status assessment of Small Bore Pipe Hanger Supports
- installation/inspection of Diesel Generators
- Diesel Generators status and installation problems
- red line drawings
- preparation of Commodity lists
- Hanger Reinspection Program

November 8, 1983 - QVP Status Assessment. At this meeting, the main item of discussion was the assignment of key personnel to the teams that will assess Module 340 and the preparations for this effort.

The major restraint affecting Module 340 continues to be the Stop Work Orders issued on the improper use of FCRs/FCNs. A schedule for release of the Stop Work Orders has not been established, however, indications are that portions of work may be able to resume before the end of November, 1983.

November 8, 9, 10, 1983 - Area and System Team Meetings. At these meetings, the subjects of importance addressed were:

- status of resolution of restraints
- schedule of resolutions for removing restraints

Restraints discussed at weekly meetings are relevant to on-going activities rather than CCP. Typically they fall into categories such as procurement delays, disposition to NCRs, and delays in obtaining design or construction details. At each meeting a review of response status and target dates for removal of restraints is discussed in detail and where necessary, an action is assigned.

- status of NCRs

ACTIVITIES

1. Training Records

CIO completed a sampling inspection of training procedures to determine the adequacy of the construction training matrix. Three discipline Field Engineers positions were selected for review of their reading assignments. A sample size of 50 procedures representing a lot size of 318 were reviewed by CIO. Considerations were given to those code levels of reading Code 0 through Code 4. In this review, it was determined that five areas of discrepancies were evident.

Four of the five discrepancies had a Code level 0 against specific procedures. The CIO review of these procedures indicated that responsibilities were defined which automatically placed the procedure into a Code level 2 or 3 requirement. The fifth discrepancy identified an area of inconsistency:

Discipline engineers, mechanical and instrumentation require Code level 2 whereas discipline engineers, electrical and welding require Code level 3 for Procedure FIG 1.400, "Preparation Review and Routing of Field Engineers Reports."

NIR 008 is being issued to cover these discrepancies.

2. System Interaction Walkdown of the Auxiliary Building continues in accordance with Mark Technologies Procedure WTP-3-Q "Procedure for Performing Walkdowns of SSIP/S Targets.

20 interactions were analyzed and documented, 6 of which were witnessed by CIO.

The CIO evaluation was performed utilizing Attribute Checklist MP-MIS-MJ-022.

3. FCR/FCNs Stop Work Orders

Eighteen FCRs/FCNs selected by CIO for reviews of resolutions were properly addressed and completed. One FCR did not have the required Resident Engineer's signature. This was promptly corrected and all 18 FCRs/FCNs more considered satisfactory and acceptable.

Results of the evaluation will be documented on Checklist MP-MIS-041, "FCR/FCN Review and Resolution Program."

OBSERVATIONS

During a CIO Walkdown of Small Bore (Instrument Air) KAC Systems, drawing SK-J-30-0220 Sheet 2 Rev. 7, it was observed that dielectric isolation spacers for galvanic protection of copper pipe to galvanized steel pipe supports were missing in some areas of this system. This inconsistency was pointed out to CPCo personnel who will perform the required research and take corrective action.

This observation will be classified as an Open Item and will be tracked until all corrective action has been satisfactorily completed.

GENERAL

1. Checklists have been developed to establish the readiness of System, Area and BHO teams to perform preliminary walkdowns by System, Discipline and Areas.
2. Mr. R. B. Kelly, QA VP and Manager, Mr. R.G. Burns Assistant QA Manager and Mr. J. Karr, Project QA Manager were on site November 9, 1983.
3. In accordance with the latest PQCI Control Log dated November 4, 1983, 65 PQCI's are listed as active. The status of CIO Checklists for these PQCI's follows:
 - (a) approved - 37
 - (b) under revision and draft review - 28

STONE AND WEBSTER ENGINEERING CORPORATION
NONCONFORMANCE IDENTIFICATION REPORT

QCI 15.01
Attachment 4.1
Revision 2

PAGE 1 OF 2

DATE OF NONCONFORMANCE:

NOVEMBER 8, 1983

NIR NUMBER 008

IDENTIFICATION/LOCATION OF ITEMS:

SYSTEM TEAM TRAINING MATRIX, REV.1, DATED JULY 20, 1983

DESCRIPTION OF NONCONFORMANCE:

During the review of the adequacy of the construction training matrices, a sample size of 50 training level assignments, representing a lot size of 318 assignments, five unsatisfactory conditions were observed in the training level assignments. The System Team Training Matrix of the Construction Training Program was utilized to perform the review.

See the attached for unsatisfactory conditions observed. The five unsatisfactory conditions reported represents a reject condition for this lot size of 318.

INITIATOR

DATE

11/9/83

PROGRAM MGR

DATE

October 10, 1983

CORRECTIVE ACTION BY:

IDENTIFY ORGANIZATION TAKING CORRECTIVE ACTION

VERIFICATION SAT UNSAT

NEW NIR#

CONCURRENCE

INITIATOR

PROGRAM MGR

DATE

DATE

DATE

REMARKS

1. *FPG 9.700, "System Team Charter"

FPG 9.700 appears on the "System Team Training Matrix" as a Level "0" (no training required) for the system team field engineer, mechanical. Paragraph 5.2.7 of this procedure identifies the job responsibilities and reporting relationships for the system team field engineers. As such, a level of training of "0" (no training) is not satisfactory.

2. FPO 1.201, "Bechtel Assigned Post Turnover (PTO) Work".

FPO 1.201 appears on the "System Team Training Matrix" as a Level "0" (no training required) for the system team field engineer, mechanical. In discussion with the Team #5 supervisor, it was noted that the Team members do get involved in Post Turnover Work. Because of this involvement by the Team members, a level of training of "0" (no training) is not satisfactory.

3. FIG 1.400 "Preparation, Review and Routing of Field Engineer's Reports."

FIG 1.400 includes responsibilities for several disciplines, ie; mechanical, civil, welding, and instrumentation as well as including responsibilities for the electrical discipline. The following conditions were noted as being unsatisfactory;

- (a) The "System Team Training Matrix" under the column entitled "Responsible Discipline" shows this procedure to be an electrical discipline procedure.
- (b) The "System Team Training Matrix" requires the field engineers of the mechanical and the instrumentation disciplines to receive a level "2" training whereas the field engineers of the electrical and welding disciplines receive a level "3" training. There is an inconsistency of training levels being assigned.

4. Specification M-214, "Piping System Erection Fit-up Control Requirements."

M-214 appears on the "System Team Training Matrix" as a level "0", (no training required) for the system team field engineer, welding. Specification pages 3, 5, 7B and 8 address welding. Also, weld fit-ups are addressed throughout this specification. As such, a level of training of "0" (no training) is not satisfactory.

5. Drawing E-039 - "Seismic Wireway Supports."

E-039 appears on the "System Team Training Matrix," as a level "0" (no training required) for the system team field engineer, welding. This drawing contains weld sizes and weld symbols for typical wireway supports. As such, a level of training of "0" (no training) is not satisfactory.

It is recommended that the disposition to this NIR include a commitment to verify the adequacy of all training matrices.

STONE & WEBSTER, INC.
CONSTRUCTION IMPLEMENTATION OVERVIEW
NIR LOG SUMMARY

| NIR NO. | MPQAD NCR NO. QAR NO. | SUBJECT | DATE OF ISSUE | DATE DISP. BY MPQAD | DATE CLOSED | REMARKS |
|---------|-----------------------------|--|---------------------|---------------------------|----------------|---|
| 001 | N/A | Training Records | 8/15/83 | 8/15/83 | 8/17/83 | NIR issued and closed-no corrective action required |
| 002 | QAR RT 00005 | Forms from both procedures B-3M and B-3M-1 are intermixed in training records | 10/4/83 | 10/12/83 | | |
| 003 | QAR RT 00006 | Yearly vision examination was exceeded | 10/4/83 | 10/12/83 | | |
| 004 | RT 00007 | OJT training records not available in training records. Revision number not listed on OJT Record | 10/4/83 | 10/12/83 | | |
| 005 | QAR RT 00011 | Personnel Certification Form QA-116-1, Attachment D is unavailable in record files | 10/4/83 | 10/12/83 | 10/20/83 | Memo to CPCo advising that NIR-005 can be closed out. Records for Level II certifications have been verified by CIO |
| 006 | | Discrepancies in three areas of Construction Training Records | 10/27/83 | | | |

STONE & WEBSTER CHIGAN, INC.
CONSTRUCTION IMPLEMENTATION OVERVIEW
NIR LOG SUMMARY

| NIR NO. | MPQAD NCR NO. | SUBJECT | DATE OF ISSUE | DATE DISP. | DATE CLOSED | REMARKS |
|---------|---------------|--|---------------|------------|-------------|---------|
| 007 | | Discrepancies in two areas of Construction Training Records for the following teams No. 24, Field Procurement, Sub-Contractors, Management, Field Engineering Staff and Construction General Services Organization | 11/7/83 | | | |
| 008 | | Five unsatisfactory conditions were observed in training level assignments during the review of the adequacy of the construction training matrices. | 11/14/83 | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

STONE & WEBSTER MICHIGAN, INC.
MIDLAND NUCLEAR COGENERATION PLANT
CIO OBSERVATIONS

| Observation Number | Observations | Originating Document/Date | CPCo Response Document/Date | Status Open/Closed | Close-Out Document/Date |
|--------------------|---|---------------------------|-----------------------------|--------------------|-------------------------|
| 030 | Need to review Vendor Equipment Verification Program - MPQAD/SMO | Report No. 5 7/18/83 | | Open | |
| 031 | NIRs 002, 003, 004 and 005 were issued on October 3, 1983 for discrepancies observed in the review of Training Records of 6 of 45 MPQAD personnel. | Report No. 16 10/3/83 | | Open | |
| 032 | NIR 006 issued on October 27, 1983 to address discrepancies observed during sample inspection of 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 | | Open | |
| 033 | NIR 007 issued on November 7, 1983 to address discrepancies observed in two areas during inspection of Construction Training Records for Teams No. 24, Field Procurement, Sub-Contractors, Management, Field Engineering Staff, and Construction General Services Organization. | Report No. 21 11/08/83 | | Open | |

STONE & WEBSTER MICHIGAN, INC.
MIDLAND NUCLEAR COGENERATION PLANT
C/O OBSERVATIONS

| Observation Number | Observations | Originating Document/Date | CPCo Response Document/Date | Status Open/Closed | Close-Out Document/Date |
|--------------------|---|---------------------------|-----------------------------|--------------------|-------------------------|
| 034 | NIR 008 Issued on November 14, 1983 to address five unsatisfactory conditions observed during the review of 50 training levels assignments in the System Team Training Matrix of the Construction Training Program. | Report No. 22 11/14/83 | | Open | |

STONE & WEBSTER MICHIGAN, INC.
CONSTRUCTION IMPLEMENTATION OVERVIEW
HOLD POINT LOG SUMMARY

| NO. | SUBJECT | ORIGINATING DOC/DATE | CPCo RESPONSE DOC/DATE | STATUS OPEN/CLOSED | CLOSE-OUT DOC/DATE |
|-----|---|-------------------------|---------------------------|-----------------------|-------------------------|
| 001 | Adequacy of drawings AB - large bore pipe hangers. CIO established Hold Point when MPQAD issued 2 NCRs against the use of red-lined drawings which were voided by Project Engineering. | Report No. 6 7/25/83 | Letter 8/9/83 | Closed | Report No. 9 8/15/83 |
| 002 | Material traceability of installed hangers(E3). CPCo response dated 7/1/83 indicated report on material traceability was to be issued in a timely manner. Due to uncertainty of when the report would be issued, a Hold Point was established by CIO. | Report No. 6 7/25/83 | Letter 8/9/83 | Closed | Report No. 9 8/15/83 |
| 003 | Has a program been developed and responsibilities established for personnel assigned to process nonconformances? Has a meeting been held with Project Engineering to discuss methodology of processing non-conformances? | Report No. 6 7/25/83 | Letter 8/9/83 | Closed | Report No. 9 8/15/83 |

STONE & WEBSTER MICHIGAN, INC.
CONSTRUCTION IMPLEMENTATION OVERVIEW
HOLD POINT LOG SUMMARY

| NO. | SUBJECT | ORIGINATING DOC/DATE | CPCo RESPONSE DOC/DATE | STATUS OPEN/CLOSED | CLOSE-OUT DOC/DATE |
|-----|---|---|-----------------------------|-----------------------|---|
| 004 | Evaluation of Phase I Management Review Committee meetings. | Report No. 1 6/3/83 through Letter of 6/30/83 | Letters 7/1/83 8/9/83 | Closed | CIO Letter to J.G. Keppler dated 10/12/83 |
| 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 | | Open | |
| 006 | NIRs 002, 003, 004 and 005 issued October 3, 1983 to address discrepancies observed during a sample inspection of Training Records of 6 of 45 MPQAD personnel. Corrective action must be completed before any inspections can be performed by the 45 personnel in question. | Report No. 18 | | Open | |
| 007 | Evaluation of Management Review of results of Phase I activities. Evaluation of Management Review Committee plans and procedures for Phase II implementation. | Report No. 19 10/24/83 | | Open | |

STONE & WEBSTER MICHIGAN, INC.
CONSTRUCTION IMPLEMENTATION OVERVIEW
HOLD POINT LOG SUMMARY

| NO. | SUBJECT | ORIGINATING DOC/DATE | CPCo RESPONSE DOC/DATE | STATUS OPEN/CLOSED | CLOSE-OUT DOC/DATE |
|-----|--|---------------------------|---------------------------|-----------------------|-----------------------|
| 008 | <p>NIR 006 has been issued on October 27, 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.</p> <p>Corrective action must be completed before any walkdown, assessments can be performed by the personnel in question.</p> | Report No. 20 10/31/83 | | Open | |
| 009 | <p>NIR 007 has been 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-Contractors, 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 11/7/83 | | Open | |

STONE & WEBSTER MICHIGAN, INC.
CONSTRUCTION IMPLEMENTATION OVERVIEW
HOLD POINT LOG SUMMARY

| NO. | SUBJECT | ORIGINATING DOC/DATE | CPCo RESPONSE DGC/DATE | STATUS OPEN/CLOSED | CLOSE-OUT DOC/DATE |
|-----|--|---------------------------|---------------------------|-----------------------|-----------------------|
| 010 | <p>NIR 008 has been issued on November 14, 1983 to address five unsatisfactory conditions observed during the review of 50 training level assignments representing a lot size 318 assignments in the System Team Training Matrix of the Construction Training Program.</p> <p>Correctives 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 | | Open | |
| 011 | <p>Prior to start of Phase III activities of FCR/FCN Resolution Program, CIO has established a Hold Point at the conclusion of Phase II activities to evaluate MPQAD performance.</p> | Report No. 22 11/14/83 | | Open | |



STONE & WEBSTER MICHIGAN, INC.

P.O. Box 2325, BOSTON, MASSACHUSETTS 02107

| PRINCIPAL STAFF | | | |
|-----------------|--|--|--|
| VP | | | |
| VP | | | |
| RC | | | |
| PAO | | | |
| SGA | | | |
| ENF | | | |

orig +3

Mr. J. G. Keppler, Administrator, Region III
Nuclear Regulatory Commission
799 Roosevelt Road
Glen Ellyn, IL 60137

November 22, 1983
J.O. No. 14509
NRC File #83-11-22

RE: DOCKET NO. 50-329/330
MIDLAND PLANT - UNITS 1 AND 2
OVERVIEW OF THE CONSTRUCTION COMPLETION PROGRAM
REPORT NO. 23

A copy of the Construction Implementation Overview Report No. 23 for the period November 14, 1983 through November 18, 1983 is enclosed.

The report includes evaluations of CCP activities and matrices of Observations, NIRs and Hold Points.

Very truly yours,

S. W. Baranow
Program Manager

SWB/ka

Enclosure

cc: JJHarrison, US NRC Glen Ellyn, IL
RJCook, US NRC Midland (site)
DLQuamme, CPCo Midland (site)
RAWells, CPCo Midland (site)
RBKelly, S&W
APAmoruso, S&W

NOV 28 1983