

# STONE & WEBSTER ENGINEERING CORPORATION

245 SUMMER STREET, BOSTON, MASSACHUSETTS



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United States Nuclear Regulatory Commission  
Midland Site Resident Inspection Office  
Route 7  
Midland, MI 48640

November 9, 1982

J.O.No. 14358  
Ref. MPF-7

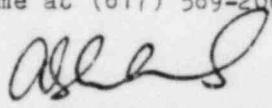
Attention Mr. R. Cook

RE: DOCKET NO. 50-329/330  
MIDLAND PLANT - UNITS 1 AND 2  
INDEPENDENT ASSESSMENT OF AUXILIARY BUILDING UNDERPINNING  
REPORT NO. 7

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A copy of the Independent Assessment of the Auxiliary Building Underpinning Weekly Report No. 7 for the period October 31 through November 6, 1982, is enclosed with this letter.

If you have any questions with respect to this report, please contact me at (617) 589-2067.

  
A. Stanley Lucks  
Project Manager

Enclosure

ASL:r.b

*add 2 pg ct.*

8406120261 840517  
PDR FOIA  
RICE84-96 PDR

Weekly Report No. 7

October 31 through November 6, 1982

Personnel on Site

Stone & Webster Engineering Corporation (SWEC)

W. Kilker 11/1 - 11/2  
A.B. Scott 11/1 - 11/5

Activities

Team representatives resolved those observations and questions on procedures still pending from Report No. 5 that were previously submitted to Bechtel.

Inspections were made at the concrete testing facilities on concrete test performed for the determination of strength of concrete for mudmats. Also the training for grout placing for jacking base plates was observed.

Meetings Attended

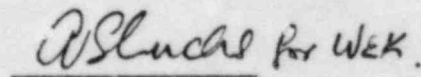
<u>Date</u>	<u>Represented</u>	<u>Purpose</u>
11/1 through 11/5	Stone & Webster Consumers Power Bechtel	Daily Meeting
11/1	Stone & Webster Consumers Power Bechtel	Presentation by Bechtel to Consumers Power Co. of Building Settlement Records.
11/5	Stone & Webster Consumers Power Government Accountability Project NRC	Review of the Independent Assessment Team qualifications and scope of work (Meeting held at the NRC office in Bethesda, MD.)

Observations

The start of the underpinning work has been further delayed pending resolution of the re-certification and settlement items.

The Assessment Team observation of the grouting training for jacking base plates indicated that the grouting produced a homogeneous filling under the plate.

  
Project Manager

  
Project Engineer



# STONE & WEBSTER ENGINEERING CORPORATION



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United States Nuclear Regulatory Commission  
Midland Site Resident Inspection Office  
Route 7  
Midland, MI 48640

October 27, 1982

J.O.No. 14358  
Ref. MPR-5

Attention Mr. R. Cook

RE: DOCKET NO. 50-329/330  
MIDLAND PLANT - UNITS 1 AND 2  
INDEPENDENT ASSESSMENT OF AUXILIARY BUILDING UNDERPINNING  
REPORT NO. 5

A copy of the Independent Assessment of the Auxiliary Building Underpinning Weekly Report No. 5 for the period October 17 through October 23 1982, is enclosed with this letter.

If you have any questions with respect to this report, please contact me at (617) 589-2067.

A. Stanley Lucks  
Project Manager

Enclosure

ASL:nb

~~8312140109~~

J.O. No. 14358  
Midland Plant  
Units 1 and 2  
Independent Assessment  
Auxiliary Building Underpinning

Weekly Report No. 5

October 17 through October 23, 1982

Personnel on Site

Stone & Webster Engineering Corporation (SWEC)

W.E. Kilker	10/18 - 10/20
P. Barry	10/18 - 10/22
L.T. Rouen	10/18 - 10/22
B. Holsinger	10/20 - 10/22
A. Scott	10/20 - 10/22

Activities

The focus of the Assessment Team effort was the disposition of numerous questions that had been raised over the past 3 weeks with respect to the pending underpinning construction specifications, drawings and procedures. To this end, the team members had meetings and discussions with site engineering and construction personnel and resolved the majority of the items. Pending items will be resolved within the next two weeks.

Team Members attended a critique meeting on the placement of reinforcing and concrete in the mock-up pier. The team was also represented at discussions of recently recorded settlement data.

Meetings Attended

<u>Date</u>	<u>Represented</u>	<u>Purpose</u>
10/18 through 10/22	Stone & Webster Consumers Power Bechtel	Daily Meeting
10/19	Stone & Webster Consumers Power Bechtel Mergentime	Settlement Monitoring Records
10/19	Stone & Webster Consumers Power Bechtel Mergentime	Critique of Mock-Up Pier- Reinforcing Steel and Concrete Placement
10/20	Stone & Webster Bechtel Mergentime	Discussion of Excavation and Lagging Procedure
10/20	Stone & Webster Bechtel Mergentime	Training Sessions on Excavation and Lagging, Jacking, and Soil Stabilization

J.O. NO. 14358  
Midland Plant  
Units 1 and 2  
Independent Assessment  
Auxiliary Building Underpinning

Meetings Attended

<u>Date</u>	<u>Represented</u>	<u>Purpose</u>
10/22	Stone & Webster Bechtel	Resolution of Observations and Questions on Con- struction Specifications and Procedures

Observations

The Assessment Team has completed the review of the reports and construction documents applicable to the initial phase of the underpinning work. Most questions have been resolved by discussion with site personnel.

The team will, commencing October 25, scale down it's presence on the site until actual start of construction.

Nonconformance Identification Reports

NIR No. 1 - Issued 10/21/82 - The Mergentime Procedure for splicing reinforcing bars did not address a specification requirement.

Wayne Killian  
Project Engineer

W. K. R. S. Sachs  
Project Manager

STONE AND WEBSTER ENGINEERING CORPORATION  
NONCONFORMANCE IDENTIFICATION REPORT

DATE OF NONCONFORMANCE: October 28, 1982 NIR Number 2

IDENTIFICATION/LOCATION OF ITEMS: Technical Specification for Underpinning of Auxiliary Building and Feedwater Isolation Valve Pits, and associated C1400 Series Drawings, located at MPQAD and QC.

DESCRIPTION OF NONCONFORMANCE: The MPQAD and QC controlled copies of the above Specification and Drawing are missing the following change documents:

QC's - 1) Specification - Specification Change Notice (SCN) No. 12002, 12003, and 12004.

QC and MPQAD 2) Drawing C1424-2 - Drawing Change Notice (DCN) No. 7 Field Change Request (FCR) - No. C4743 and C4485.

INITIATOR:  
*Barry L. Holsinger*  
Barry L. Holsinger

DATE:  
October 28, 1982

PROJECT MANAGEMENT CONCURRENCE:  
*Wayne Killeb for A.S. Locke*

CORRECTIVE ACTION BY:  
(IDENTIFY ORGANIZATION TAKING CORRECTIVE ACTION)

INITIATOR CONCURRENCE:

PROJECT MANAGEMENT CONCURRENCE:

DATE:

J.O.No. 14358  
Midland Plant  
Units 1 and 2  
Independent Assessment  
Auxiliary Building Underpinning

STONE AND WEBSTER ENGINEERING CORPORATION

NONCONFORMANCE IDENTIFICATION REPORT

DATE OF NONCONFORMANCE: 10/21/82 NIR Number 1

IDENTIFICATION/LOCATION OF ITEMS: Procedure for Mechanical Splicing of Reinforcement (MCP 16.000; Rev. 3.)

DESCRIPTION OF NONCONFORMANCE: Technical Specification for Underpinning of Auxiliary Building and Feedwater Isolation Valve Pits (para 11.5.3-g) requires subcontractor's procedure for Mechanical Splicing of Reinforcement to provide a method of mechanically locking the position splices.

The Mergentime Procedure does not provide for mechanically locking splices.

INITIATOR:

*L. T. Green*

DATE:

10/21/82

PROJECT MANAGEMENT CONCURRENCE:

*A. S. Lucks LTR*

CORRECTIVE ACTION BY:

(IDENTIFY ORGANIZATION TAKING CORRECTIVE ACTION)

INITIATOR CONCURRENCE:

PROJECT MANAGEMENT CONCURRENCE:

DATE:

# STONE & WEBSTER ENGINEERING CORPORATION



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Midland Site Resident Inspection Office  
Route 7  
Midland, MI 48640

October 18, 1982

J.O.No. 14358  
Ref. MPR-4

Attention Mr. R. Cook

RE: DOCKET NO. 50-329/330  
MIDLAND PLANT - UNITS 1 AND 2  
INDEPENDENT ASSESSMENT OF AUXILIARY BUILDING UNDERPINNING  
REPORT NO. 4

A copy of the Independent Assessment of the Auxiliary Building Underpinning Weekly Report No. 4 for the period October 10 through October 16, 1982, is enclosed with this letter.

If you have any questions with respect to this report, please contact me at (617) 589-2067.

A. Stanley Lucks  
Project Manager

Enclosure

ASL:ck

8312140706

BX214358-2



J.O.No. 14358  
Midland Plant  
Units 1 and 2  
Independent Assessment  
Auxiliary Building Underpinning

Weekly Report No. 4

October 10 through October 16, 1982

Personnel on Site

Stone & Webster Engineering Corporation (SWEC)

W. E. Kilker	10/12/82-10/15/82
P. Barry	10/12/82-10/15/82
L. T. Roen	10/11/82-10/15-82
B. Holsinger	10/11/82-10/15/82
A. Scott	10/11/82-10/15/82

Parsons, Brinckerhoff, Quade, & Douglas (PBQD)

J. Ratner	10/11/82-10/15/72
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Activities

The Assessment Team completed the review of all construction specifications and procedures associated with the initial phases of the underpinning. Familiarization with the drawings and Quality Assurance/Quality Control procedures continued. Discussions with site personnel were held to resolve questions and observations on the various construction documents.

Team members read the portions of the NRC's Supplemental Safety Evaluation Report No. 2 applicable to the Auxiliary Building Underpinning.

The team members attended the site Soils Training Classes on quality plans, soils work permits and coordination forms.

<u>Meetings Attended</u>	<u>Represented</u>	<u>Purpose</u>
10/11/82 through 10/15/82	Stone & Webster Consumers Power Bechtel	Daily Meetings
10/14/82 and 10/15/82	Stone & Webster Consumers Power Bechtel Mergentime	Soils Remedial Training Program Courses
10/15/82	Stone & Webster Consumers Power Bechtel Mergentime	Weekly Soils Review Meeting

Observations - None

*W.E. Kilker*  
Project Engineer

*Alb...*  
Project Manager

WEBSTER ENGINEERING CORPORATION

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United States Nuclear Regulatory Commission  
Midland Site Resident Inspection Office  
Route 7  
Midland, MI 48640

October 13, 1982

J.O.No. 14358  
Ref. MPR-3

Attention Mr. R. Cook

RE: DOCKET NO. 50-329/330  
MIDLAND PLANT - UNITS 1 AND 2  
INDEPENDENT ASSESSMENT OF AUXILIARY BUILDING UNDERPINNING-  
REPORT NO. 3

A copy of the Independent Assessment of the Auxiliary Building Underpinning Weekly Report No. 3 for the period October 3 through October 9, 1982, is enclosed with this letter.

If you have any questions with respect to this report, please contact me at (617) 589-2067.

*A. Stanley Lucks*  
A. Stanley Lucks  
Project Manager

Enclosure

ASL:mmm

~~8312140104~~

J.O.No. 14358  
Midland Plant  
Units 1 and 2  
Independent Assessment  
Auxiliary Building Underpinning

Weekly Report No. 3

October 3 through October 9, 1982

Personnel on Site

Stone & Webster Engineering Corporation (SWEC)

W. E. Kilker	10/5/82-10/8/82
P. Barry	10/4/82-10/8/82
L. T. Rouen	10/4/82-10/8/82
B. Holsinger	10/5/82-10/8/82
A. Scott	10/4/82-10/8/82

Parsons, Brinkerhoff, Quade, & Douglas (PBQD)

P. Parish	10/4/82-10/8/82
J. Ratner	10/4/82-10/8/82

Activities

The start of the underpinning work has been delayed pending the recertification of the Soils Remedial Quality Control Inspectors. In the interim, the Assessment team members have completed the review of several of the construction specifications and procedures associated with the initial phases of the underpinning work. Team member questions or observations have been presented to site personnel for resolution.

Several of the team members toured the off-site concrete batch plant and received a briefing on the plant lay-out and production procedures. A general interest tour of the Auxiliary Building and Reactor Containment Structure was given to all of the team members by site engineers.

Observations were made of the underpinning contractor performing routine back-packing maintenance with sand and excelsior on the access shafts' lagging.

Meetings Attended

<u>Date</u>	<u>Represented</u>	<u>Purpose</u>
10/8/82	Stone & Webster Consumers Power Co. Bechtel Mergentime	Weekly Soils Review Meeting
10/4/82 through 10/8/82	Stone & Webster Consumers Power Co. Bechtel	Daily Meeting

Observations

Familiarization with the specifications, drawings, and construction procedures associated with the initial phase of construction is generally complete. Observations and questions from the team members on the construction documents have been discussed with site personnel.

Wayne Kilker  
Project Engineer

Nuri T. Genger  
for Project Manager

**STONE & WEBSTER ENGINEERING CORPORATION**

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United States Nuclear Regulatory Commission  
Midland Site Resident Inspection Office  
Route 7  
Midland, MI 48640

October 12, 1982

J.O.No. 14358  
Ref. MPR-2

Attention Mr. R. Cook

RE: DOCKET NO. 50-329/330  
MIDLAND PLANT - UNITS 1 AND 2  
INDEPENDENT ASSESSMENT OF AUXILIARY BUILDING UNDERPINNING-  
REPORT NO. 2

A copy of the Independent Assessment of the Auxiliary Building Underpinning  
Weekly Report No. 2 for the period September 27 through October 3, 1982, is  
enclosed with this letter.

If you have any questions with respect to this report, please contact me at  
(617) 589-2067.

*A. Stanley Lucks*

for A. Stanley Lucks  
Project Manager

Enclosure

ASL:pms

BX214358-2

*8312140101*

J.O.No. 14358  
Midland P'ant  
Units 1 and 2  
Independent Assessment  
Auxiliary Building Underpinning

Weekly Report No. 2

September 27 through October 3, 1982

Personnel on Site

Stone & Webster Engineering Corporation (SWEC)

W. E. Kilker	9/27/82-10/1/82
P. Barry	9/27/82-10/1/82
L. T. Kouen	9/27/82-10/1/82
B. Holsinger	9/27/82-10/1/82
A. Scott	9/27/82-10/1/82
A. S. Lucks	9/27/82-9/29/82

Parsons, Brinkeroff, Quade, & Douglas (PBQD)

P. Parish	9/27/82-10/1/82
J. Ratner	9/29/82-10/1/82

Activities

The assessment team continued their review of the reports, specifications, drawings and procedures in order to gain familiarity with the initial phases of the pending underpinning work. The review concentrated on issued excavation, lagging, ground stabilization and concrete placement procedures. Discussions to resolve any questions concerning these procedures were held with Bechtel and Consumers Power site personnel. The plant QA program and Quality Control procedures on concrete and reinforcement were reviewed by QA team members.

The Assessment team and representatives of Consumers Power Company met with NRC representatives. The role of the assessment team and the interaction with the various site groups, and the methods of reporting the team findings were discussed in this meeting.

Two of the team members attended a public meeting of the NRC and Consumers Power Company. The discussion focused on the establishment of the Midland Plant QA program under Consumers Power Company administration and control and the certification of QC inspectors under the Consumers Power Company program.



Meetings Attended

<u>Date</u>	<u>Represented</u>	<u>Purpose</u>
9/28/82	Stone & Webster Consumers Power Co. U.S. Nuclear Regulatory Commission	Introduction of USNRC and Assessment Team. Discus- sion of Assessment Team's role.
9/29/82	Stone & Webster Bechtel USNRC Public	Public Meeting - Discussion of QA Administration and QC Certification.
9/30/82	Stone & Webster Consumers Power Co. Bechtel	Presentation of Underpinning model.
10/1/82	Stone & Webster Consumers Power Co. Bechtel Mergentime	Weekly Soils Review Meeting
9/27/82 through 10/1/82	Stone & Webster Consumers Power Co. Bechtel	Daily Meeting

Observations

The Assessment Team has continued to receive cooperation of on-site personnel. Team members observations, questions or suggestions have been given prompt and complete attention by the appropriate site personnel.

Wayne Kilbee  
Project Engineer

Nani T. Georgan  
for Project Manager

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W. B. FAX 20101  
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United States Nuclear Regulatory Commission  
Midland Site Resident Inspection Office  
Route 7  
Midland, MI 48640

September 29, 1982

J.C.No. 14258.06  
Ref. MPR-1

Attention Mr. R. Cook

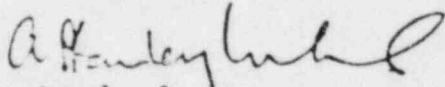
Dear Sir:

RE: DOCKET NO. 50-329/330  
MIDLAND PLANT - UNITS 1 AND 2  
INDEPENDENT ASSESSMENT OF AUXILIARY BUILDING UNDERPINNING

A copy of the Independent Assessment of the Auxiliary Building Underpinning Weekly Report No. 1 for the period September 19 through 26, 1982, is enclosed with this letter.

If you have any questions with respect to this report, please contact me at (617) 344-2007.

Very truly yours,

  
A. Stanley Lucks  
Project Manager

Enclosure

ASL:ch

~~8312140097~~

J.O.No. 1438  
Midland Plant  
Units 1 and 2  
Independent Assessment  
Auxiliary Building Underpinning

Weekly Report No. 1

September 19 through 26, 1982

Personnel on Site

Stone & Webster Engineering Corporation (SWEC)

W. E. Kilker	9/20/82-9/26/82
P. Barry	9/20/82-9/23/82
L. T. Rouen	9/20/82-9/24/82
B. Holsinger	9/20/82-9/26/82
A. Scott	9/20/82-9/26/82
A. S. Lucks	9/21/82-9/23/82

Parsons, Brinkerhoff, Quade, & Douglas (PBQD)

P. Parish	9/21/82-9/24/82
J. Ratner	9/22/82-9/24/82

Activities

This report summarizes the first week of activities and observations of the SWEC independent assessment team (including the PBQD personnel). The team, which at the present time consists of seven engineers representing Geotechnical, Structural, Construction, and Quality Assurance disciplines, arrived at the site between September 20 and September 22.

The assessment team has established separate on-site office space and has contracted for clerical assistance.

Introductions of all team members were made to on-site personnel representing Bechtel Engineering and Construction; Consumers Power Company Quality Assurance and Quality Control; Wiss, Janney & Elstner (WJ&E) Instrumentation Monitoring; and Mergentime Construction. Tours and briefings of the various areas and activities related to the underpinning were given throughout the week at the request of the assessment team. Included in these tours and briefings were the in-place access shafts and FIVE superstructure supports, the deep-seated benchmarks and relative motion measurement stations, the extensometer and strain gage instrumentation installations, the crack mapping, the WJ&E instrumentation monitoring and data recording station, the lagging and reinforcing bar fabrication shops, and the material testing laboratory.

Also, the assessment team periodically observed the work on the mock-up pier (located near the Outage Building) and the jacking stand mock-up (located adjacent to the lagging fabrication shop). All lagging and shoring were in place on the mock-up prior to the team's arrival on site, but observations

the placement of the reinforcement installation and the placement of concrete in the lower half of the pier. Three members of the assessment team entered the pier for firsthand observations of the installation. The Quality Control activities and documentation prepared prior to release for concrete placement were described and/or provided as requested by the team members.

Daily meetings were held starting September 21 between personnel representing the assessment team, Bechtel Engineering and Construction, and Consumers Power Company Engineering and Quality Assurance. These meetings provided a format for the assessment team to request information and clarification as well as to discuss observations.

Members of the team have read the Summary of Soils-Related Issues Report and are reviewing applicable specifications, drawings, construction, and Quality Control procedures, instrument monitoring procedures, and plant Quality Assurance documents.

An assessment team Project Manual has been prepared that includes the Project Organization Quality Assurance Plan and reporting and documentation procedures.

Meetings

<u>Date</u>	<u>Represented</u>	<u>Purpose</u>
9/20/82	Stone & Webster Consumers Power Co. Bechtel Mergentime	Introduction to Site Personnel
9/21/82 through 9/25/82	Stone & Webster Parsons Consumers Power Co. Bechtel	Daily Meeting

Observations

The assessment team received full cooperation of on-site personnel. Independent office space and telephone communication have been provided. Consumers Power Company and Bechtel personnel have complied with team requests for access to existing installations, briefings, documents, and records.

W E Keller  
Project Engineer

ASL  
Project Manager



U.S. NUCLEAR REGULATORY COMMISSION  
REGION III

**SUBJECT:**

**DATE:**

**CONTENTS MUST NOT BE REMOVED**

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STONE & WEBSTER MICHIGAN, INC.

P.O. Box 2325, BOSTON, MASSACHUSETTS 02107

*① Warwick*  
*② File*

PRINCIPAL STAFF	
✓ A	<i>per</i>
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STR	
PC	
PAO	
SGA	
TF	<i>File</i>

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

December 5, 1983  
 J.O. No. 14509  
 NRC File #83-12-5

RE: DOCKET NO. 50-329/330  
 MIDLAND PLANT - UNITS 1 AND 2  
 OVERVIEW OF THE CONSTRUCTION COMPLETION PROGRAM  
 REPORT NO. 25

A copy of the Construction Implementation Overview Report No. 25 for the period November 28, 1983 through December 2, 1983 is enclosed.

This report includes evaluations of CCP activities, matrices of observations, NIRs, Hold Points and Affidivats and Resumes of newly assigned CIO Personnel.

*S. W. Baranow*

S. W. Baranow  
 Program Manager

SWB/fs

Enclosures

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

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Meetings

November 28 through December 2, 1983 - During this period CIO attended daily meetings with staff management.

Subjects discussed at these meetings were:

- A. Stop Work Orders - Stop Work Orders addressing FRNs and FCNs were discussed daily. The total number of documents involved and their status was presented. End of week approximate figures were that only fifty (50) FCRs and FCNs remain for first review, 5,000 are in document control for review and 400 have been returned from document control for re-review. It is estimated that 500 of the 5,000 in document review will require re-review.

The schedule of MPQAD and CIO audits and their impact on lifting Stop Work Orders was discussed.

- B. Nonconformance Reports - The details of each NCR were discussed to decide whether the nonconformance was representative of a generic problem. Also discussed were the preventative actions that could be undertaken.

Two nonconforming conditions were the subject of extended discussion.

1. NCRs C00628, C00640 and C00650 referenced bypassing QC Hold Points on PQCI E-5.0 Rev. 13.
2. MCR C00708 referenced arc strikes on structural members fabricated at the Standish shop.

- C. Training - Sessions are being scheduled after a recent delay due to Stop Work Order commitments.

CIO NIRs 006, 007 and 008 were discussed in detail. Re-audits, schedule for attaining compliance and the impact of NIRs on status assessment were topics at several meetings.

- D. Procedure Approval and Issuance - All Procedures required for status assessment have been issued. However revisions to Procedures present a potential problem due to the high number of revisions and time taken to process revisions.

Report No. 25

November 28, 1983 through December 2, 1983

Personnel on Site

Stone & Webster Michigan, Inc.

A. Amoruso	D. Cooke	R. Scallan	J. Karr
S. Baranow	R. Corson	J. Seely	D. Wells
F. Bearham	J. Langston	W. Taylor	L. Van Arsdale
J. Barr	C. Marrs	J. Thompson	E. Barcomb
R. Carpeggiani	D. MacBay	R. Butler	D. Beauchamp
J. Chawla	T. Parker	N. Weatherall	D. Brown
W. Sienkiewicz	A. Smith	S. Narayandas	T. Baumgartner
			B. Kasson

Meetings Attended

<u>Date</u>	<u>Attendees</u>	<u>Purpose</u>
November 28, 1983 through December 2, 1983	Consumers Power Company Bechtel Power Company Stone & Webster CIO MPQAD	Daily Staff Management Meetings
November 28, 1983 through December 2, 1983	Consumers Power Company Bechtel Power Company Stone & Webster CIO	Team Meetings
November 29, 1983	Consumers Power Company Bechtel Power Company MPQAD Stone & Webster CIO	QVP Status Assessment
November 28, 29 and December 2, 1983	MPQAD Stone & Webster CIO	CIO Sampling of FCR/FCNs
December 2, 1983	Consumers Power Company Bechtel Power Company Babcock & Wilcox Zack Owens-Coring Transco, Inc. Penetration Seals Grinnell U.S. Testing Electrical Fire Proofing Stone & Webster CIO	Weekly Sub-Contractors Meeting

November 28 through December 2, 1983 - CIO personnel assigned to respective teams attended meetings for discussions of:

A. Teams 8 and 18

- (a) Discussions centered on the up-dating of the team members required training to be in compliance with the Training Matrix. Up-dating is anticipated to be complete within two weeks.

B. Teams 27 and 28 - Discussion items were: Method of communication with project during the Stop Work Order period.

- (a) Verbal communication should be limited.
- (b) Written communication will be generated by the Resident Engineer by issuing a Resident Engineer Memorandum (REM) to Ann Arbor for problem resolutions. Responses from project will be in the form of Design Change Notice (DCN) or a Specification Change Notice (SCN).
- (c) Composite drawings for all penetrations should be issued for use in status assessment.
- (d) Team quality representatives are responsible for marking-up punchlists to define QC commitments.

C. Team 5 - For discussions of:

- (a) Team restructuring by addition of hanger personnel.
- (b) Status assessment training. This training is on-the-job training where Mechanical Field Engineers and Instrumentation Field Engineers perform a mock status assessment of pre-designated components. This mock assessment is then graded by the Lead Field Engineer of the specific disciplines. This concept and pre-development of checklists has been adopted by other Groups and it appears there will be commonality in the use of techniques and checklists.

D. BHO Hanger Team - For discussion of:

- (a) Mock assessment of "in-house" hanger training in pre-operation for status assessment. CIO witnessed mock assessments of hardware and determined that the mock assessment performed was effective and in compliance with CCP requirements.

In-house training on executing software (i.e., NCRs, CWP's, FCRs and FCNs) is scheduled for week of December 12, 1983.

E. Team 14 - For discussion of:

- (a) Up-dating of Punchlist is progressing in a satisfactory manner.
- (b) Required reading and training for this team is considered to be 83% completed.

November 29, 1983 - QVP Status Assessment Meeting:

The restraints affecting commencement continue to be the principal item on the agenda. The restraints are the FRN/FCN Stop Work Orders, preparation of a schedule, establishment of priority modules and CIO NIRs.

FCR/FCN Meetings - Discussions of:

- (a) Status of Phase I and II completion.
- (b) Readiness of the Master Log to coincide with the anticipated review by CIO of the FCRs/FCNs considered acceptable by both BPCo and CPCo.
- (c) Status and population of FCR/FCNs in the resolution phase.

December 2, 1983 - Subcontractors' Meeting - 9:00 a.m. - Spokesman - BPCo Superintendent.

B & W Construction Company - FCA (field change authorization) work being done. Containment (Unit I) area is being converted into a "controlled access area". Also, B & W are establishing a cleanliness criteria "no eating in these established areas". The "D" rings are a cleanliness concern. Formal training is being discussed with MPQAD.

Zack Company - Perform "8 foot criteria" walkdown will be complete by December 30, 1983. The System Team Supervisor has three men from Zack Company working on this hanger walkdown. Zack training will be complete by December 25, 1983. MPQAD has Zacks Procedure for review, scheduled to be returned to Zack on December 15, 1983. Forty-seven Linear Feet of duct require re-inspection due to the "weld samples" which has a direct effect on the installation quantity curve, Punchlist Summary needs to be re-computed, Bechtel seems to think Quantity/Manhours correlations are incorrect.

Owens-Corning Fiberglas - BPCo requires that method of providing hydro status and insulation be cleaned up to eliminate confusion.

Owens-Corning reported that the working hours were changed to 32 hours a week. BPCo advised that this practice may be contrary to the subcontractors working agreement.

Transco, Inc. - No activities.

Penetration Seals - BPCo had a problem with Contract Clarifications and Additions, and asked for more detailed reports on:  
1) Cancellation Clause, 2) Additional Scope - Conduit.  
Penetration Seals Company will report before next weeks meeting.

Grinnell Fire Protection System - Grinnell will have by next meeting, Engineering reviews of any additional requirements for Sprinkler systems. Grinnell has to re-submit as-built drawings, incorporating the remaining Bechtel comments by December 7, 1983.

U.S. Testing Company, Inc. - U.S. Testing home office management personnel has supported site activities with the assignment of a Site Manager. NCR #562 will be cleared up by December 1, 1983, six QARs remain open, Numbers 57, 58, 59, 62, 64 and 72.

Electrical Fire Proofing - BPCo requested a break down of the four types of seals to add to the action list.



## ACTIVITIES

### 1. Training Classes

CIO attended and evaluated construction training classes on:

- (a) Construction Punchlist FPG-9.900 Rev. 2.
- (b) Construction Completion Program.

This presentation was not evaluated by TET. CIO evaluations of the effectiveness of the presentation were considered to be satisfactory. Presentations were in compliance with FPG-2.000 "Training of Constructions Personnel".

Results of the evaluation have been documented on checklist MP-MIS-001E and are available for review.

### 2. Training Records

In response to CIO NIRs 006 and 007, CIO was advised by memorandum on November 30, 1983, that corrective actions were underway to resolve the discrepancies noted on the NIRs. CIO performed a review of the original discrepant records on December 3 and December 4, 1983, and determined that numerous records still required corrections.

CIO, when notified that all corrections have been completed, will perform a review of the training records, and if satisfactory, will then perform a sample inspection of the balance of the established lot size.

Sampling will be done of individual team training records.

- 3. CIO performed a verification of the identifications and tagging of LAQTS bolts of flange connections in the Diesel Generator Building.

## CIO OBSERVATIONS

- #031 CIO reviewed the training records of 6 of 45 MPQAD personnel as noted on NIRs 002, 003 and 004. The records reviewed were considered satisfactory and acceptable by CIO. A sample inspection of the training records of the balance of MPQAD personnel (39) is scheduled for completion during the week of December 5, 1983. If this sampling review produces satisfactory results, NIRs 002, 003 and 004 will be closed out.



- #035 Concerning this observation, CIO found no evidence that the requirement for the galvanic protection of copper pipe was defined in either specifications or drawings. The governing document for installation of the support components is described on an Interoffice Memorandum dated May 4, 1979, from A. J. Boos to Field Engineers and Mechanical Superintendents.

The portion of the instrument air system in consideration is Non-Q and the noted condition was referred to CPCo by CIO for resolution. The method of promulgating job requirements used (e.g., by Memorandum) should be reviewed by CPCo to ascertain that requirements for Systems are only issued through authorized controlled documents such as specifications and drawings.

- #036 Report #24 dated november 29, 1983, states in part - "FCNs would no longer be issued for Non-Q items". The observation should be revised to read "FCNs will no longer be issued for Q items and will in the future apply to only Non-Q items."

#### GENERAL

An audit was performed by Stone & Webster, Boston, of the CIO program and activities, November 28, 1982 through December 2, 1983. The audit was conducted by Mr. J. Cunningham, Lead Auditor, assisted by Mr. R. Laskey. The audit findings will be issued within 30 days and will be available for on site reviews.

Signed affidavits and resumes of Stone & Webster personnel assigned to the CIO staff have been transmitted to Mr. J. J. Harrison, US NRC, Glen Ellyn, Illinois.

E. G. Barcomb, Jr., QC Inspection Supervisor  
T. L. Baumgartner, QA Engineer  
D. W. Beauchamp, Senior QC Inspector  
D. W. Brown, QA Engineer  
B. Z. Kasson, QA Engineer  
L. M. Van Arsdale, QC Engineer  
C. L. Wells, Chief QC Inspection Supervisor

STONE & WEBSTER MICHIGAN, 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 us 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 MICHIGAN, 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  
C/O OBSERVATIONS

Observation Number	Observations	Originating Document/Date	CPCo Response Document/Date	Status Open/Closed	Close-Out Document/Date
006	<p style="text-align: center;"><i>5/12/83</i></p> <p>MRC Meeting <del>5/5/83</del> Program (Training) requires revision to address how "Trainers" are trained</p>	Report No. 1 6/3/83	Letter 7/1/83	Closed	Report No. 5 7/18/83
007	Method of communication/notification with MPQAD when PQCI's are found to be ambiguous or do not meet code requirements	Report No. 1 6/3/83	Letter 7/1/83	Closed	Report No. 4 7/12/83
008	<p>MRC Meeting 6/1/83 Adequacy of drawings (A8) - large Lore pipe hangers Hold Point Released 8/15/83</p>	Report No. 2 6/14/83	Letters 7/1/83 8/9/83	Closed	Report No. 9 8/15/83
009	<p>MRC Meeting 6/1/83 Additional verification of equipment received and installed (E-2)</p>	Report No. 2 6/14/83	Letters 7/1/83 8/9/83	Closed	Report No. 9 8/15/83
010	<p>MRC Meeting 6/1/83 Material traceability of installed hangers (E3) Hold Point Released 8/15/83</p>	Report No. 2 6/14/83	Letters 7/1/83 8/9/83	Closed	Report No. 9 8/15/83
011	<p>MRC Meeting 6/1/83</p> <p>(a) discussion of nonconforming items with Project Engineering</p> <p>(b) has a program been developed and responsibilities established of personnel assigned to process nonconformances?</p> <p>NOTE: Hold Point Released 8/15/83</p>	Report No. 2 6/14/83		Open pending receipt of Nutech Program	

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
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  
CIO 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	
035	CIO observed that dielectric isolation spacers for galvanic protection of copper pipe to galvanized steel pipe supports were missing in some areas on this system, Small Bore (Instrument Air) KAC Systems, drawing FSK-J-30-0220 Sheet 2 Rev. 7.	Report No. 22 11/14/83		Open	
036	At team meeting of teams 26 and 27 held on November 22, 1983, a decision that FCNs would no longer be issued for "non-Q" items was discussed. The method for controlling changes has not been finalized.	Report No. 24 11/29/83		Open	
037	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 C00925 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		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	

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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 DOC/DATE	STATUS OPEN/CLOSED	CLOSE-OUT DOC/DATE
010	<p>NIR 008 was issued November 14, 1983 to address 5 unsatisfactory conditions observed during the review of 50 training level assignments representing a lot size of 318 assignments on 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 in question.</p>	Report No. 22 11/14/83		Open	
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 11/21/83		Open	

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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
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> <p style="text-align: center;"><u>REVISED</u></p>	Report No. 22 11/14/83		Open	



STONE & WEBSTER MICHIGAN, INC.

P.O. Box 2325, BOSTON, MASSACHUSETTS 02107

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

November 29, 1983  
J.O. No. 14509  
NRC File #83-11-29

RE: DOCKET NO. 50-329/330  
MIDLAND PLANT - UNITS 1 AND 2  
OVERVIEW OF THE CONSTRUCTION COMPLETION PROGRAM  
REPORT NO. 24

A copy of the Construction Implementation Overview Report No. 24 for the period November 21, 1983 through November 23, 1983 is enclosed.

Because of the short work week, (two holidays), CIO activities were somewhat limited during this reporting period.

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

Very truly yours,

S. W. Baranow  
Program Manager

SWB/fs

Enclosures

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

~~840116026~~

Report No. 24

November 21, 1983 through November 23, 1983

Personnel on Site

Stone & Webster Michigan, Inc.

A. Amoruso	D. Cooke	J. Seely
S. Baranow	R. Corson	W. Taylor
J. Barr	C. Marrs	J. Thompson
R. Carpeggiari	D. MacBay	S. Narayandas
J. Chawla	T. Parker	
W. Sienkiewicz	R. Scallan	

Meetings Attended

<u>Date</u>	<u>Attendees</u>	<u>Purpose</u>
November 21, 1983 and November 22, 1983	Consumers Power Company Bechtel Power Company Stone & Webster CIO MPQAD	Daily Staff Management Meetings
November 21, 1983 and November 22, 1983	Consumers Power Company Bechtel Power Company Stone & Webster CIO	Team Meetings
November 23, 1983	Consumers Power Company Bechtel Power Company Stone & Webster CIO	Team Supervisors Meeting

Meetings

November 21 and 22, 1983 - CIO attended daily meetings with staff management and supervision.

Subjects discussed at these meetings were as follows:

- A) Stop Work Order - The status of completion of FCR/FCN review and incorporation into design documents.
- B) Training - Status of Revision 2 of the Training Matrix, actions required to respond to the NIR issued by Stone & Webster CIO, assignment of a training coordinator in Ann Arbor.
- C) Procedures - Status of procedures, major restraints or delays.
- D) NCR - Backlog due to priority assigned to FCR/FCN review.

November 21, through November 23, 1983 - CIO personnel assigned to respective teams, attended team meetings for discussions of:

A) November 21, 1983

Team 5 - Meeting with Team Supervisor and head Field Engineer to discuss the readiness of the team to start status assessment.

The preparations made by Group III Teams for status assessment consist of:

- (a) Preparing mechanical checklists to perform status assessments to remain consistent with all teams within the group.
- (b) Holding on-the-job training (eight hours) for Instrumentation Engineers.

Other Groups (i.e., I and II) are not preparing for status assessment as in Group III.

B) November 22, 1983

Team 30 - CIO attended an informal, in-house training session on Sway Struts and Snubbers and Spring Canister installations. Topics discussed during this session consisted of:

- (a) Differences of design of manufacturer's equipment.
- (b) Procedural steps for inspection.
- (c) Identifying inspection techniques.
- (d) Use of specifications and manufacturer's catalogues.
- (e) Use of Load Capacity Data Sheets.

C) November 22, 1983

Teams 26 & 27 - Items discussed at this meeting were:

- (a) Observation #36 - FCNs would no longer be issued for non-Q items. The method for controlling changes is under discussion and will be described in the near future.
- (b) MPQAD is currently walking down and tagging all Low Alloy Quenched and Tempered Steel Bolts (LAQTS) used in Q systems.

The question was raised as to what impact the walkdown would have on Status Assessment. MPQAD advised that there will be no impact on Statusing as the walkdown will continue subsequent to Statusing and all nonconforming bolts will be identified.

A meeting has been scheduled with MPQAD and Area Teams to correlate activities relative to LAQTS. CIO will be in attendance at this meeting.

D) November 23, 1983

Team Supervisors Meeting - Items discussed were:

- (a) Non-Q hangers at the Standish facility are on "Hold" pending approval of the Coating Supplier.
- (b) Painting of Q interface walls in areas requested by CPCo (i.e., Uncontrolled Lab in Turbine Building) is on "Hold" due to Stop Work. CPCo will make the determination if these items will be Turnover exceptions.
- (c) MPQAD is reviewing the LAQTS program to determine if it is limited to Q bolts or is to include non-Q as well. Teams will be advised as to whether the LAQTS program will be separate or will be included in Phase I activities.

#### ACTIVITIES

##### 1. Training Records

In response to CIO NIRs 002, 003, and 004, CIO was advised by issuance of completed QARs on November 21, 1983, that corrective actions have been completed.

CIO has reviewed the training records of the six (6) personnel addressed in the NIRs and determined that the corrective actions were satisfactorily accomplished.

CIO is preparing a sample plan to review training records of the thirty-nine (39) personnel previously identified in the original lot size of forty-five (45).



## 2. Preliminary Walkdown

CIO completed the assessment of the BHO preliminary walkdown in Module 340 on November 22, 1983. The walkdown was performed in accordance with CPCo procedure FPM 9.200, Rev. 1 Bulk Hanger Organization Hanger Walkdowns.

The evaluation of the implementation was judged to be satisfactory and in compliance with FPM 9.200, Rev. 1. Results of the evaluation have been documented on Checklist MP-MIS-042, Rev. 1 BHO Walkdowns.

### CIO OBSERVATIONS

#35 Report No. 22, dated November 14, 1983, identified missing isolation spaces for galvanic protection of copper pipe to galvanized steel pipe supports.

A follow-up walkdown of this system, line number IYDD-4A was performed on November 21, 1983. The following corrective action had been performed:

1. Elevation 631'-0" - Tendon Area H5.1 - copper shim stock added as required.
2. Elevation 640'-0" - Tendon Area H5.1 - copper shim stock added as required.
3. Elevation 584'-0" - Room 112 - copper shim stock and plastic coated clamp added as required.
4. Elevation 595'-0" - Room 200 - copper shim stock and plastic coated clamp added as required.

It was determined that these isolation spacers for the galvanic protection were installed in accordance with Bechtel Power Corporation, Interoffice Memorandum from A. J. Boos, Dated May 4, 1979; Subject: Installation of Supports for Copper Pipe, O-2264. CIO considers this observation open until a complete walkdown of the system has been accomplished.

#37 During the walkdown of the system described above, CIO observed two boards with protruding nails lying in Cable Tray 1AKA019 (Q Tray). CPCo personnel were advised of this condition. Upon removal of the boards it was observed that a Q cable, 9/C 14 AWG cable jacket was punctured. Cable is Q - channel A, 480 V. MCC.

An NCR C00925 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.

This observation remains open.

JOB NO. 14509  
MIDLAND NUCLEAR POWER PLANT  
REPORT NO. 24  
PAGE 5

GENERAL

1. Resume of Mr. S. Narayandas, Trend Analyst, has been transmitted to Mr. J. J. Harrison, US NRC, Glen Ellyn, Illinois.

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

ID NO.	MPQAD NCR NO. QAR NO.	SUBJECT	DATE OF ISSUE	DATE DISP. BY MPQAD	DATE CLOSED	REMARKS
01	N/A	Training Records	8/15/83	8/15/83	8/17/83	NIR issued and closed-no corrective action required
02	QAR RT 00005	Forms from both procedures B-3M and B-3M-1 are intermixed in training records	10/4/83	10/12/83		
03	QAR RT 00006	Yearly vision examination was exceeded	10/4/83	10/12/83		
04	RT 00007	OJT training records not available in training records. Revision number not listed on OJT Record	10/4/83	10/12/83		
05	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
06		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
07		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			
08		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.  
 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	



Re-worded

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 DOC/DATE	STATUS OPEN/CLOSED	CLOSE-OUT DOC/DATE
010	<p>NIR 008 was issued November 14, 1983 to address 5 unsatisfactory conditions observed during the review of 50 training level assignments representing a lot size of 318 assignments on 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 in question.</p>	Report No. 22 11/14/83		Open	
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 11/21/83		Open	

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
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	
035	CIO observed that dielectric isolation spacers for galvanic protection of copper pipe to galvanized steel pipe supports were missing in some areas on this system, Small Bore (Instrument Air) KAC Systems, drawing FSK-J-30-0220 Sheet 2 Rev. 7.	Report No. 22 11/14/83		Open	
036	At team meeting of teams 26 and 27 held on November 22, 1983, a decision that FCNs would no longer be issued for "noh-Q" items was discussed. The method for controlling changes has not been finalized.	Report No. 24 11/29/83		Open	
037	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 C00925 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		Open	



STONE & WEBSTER MICHIGAN, INC.

P.O. Box 2325, BOSTON, MASSACHUSETTS 02107

PRINCIPAL STAFF	
USA	DE
VEV	DRWD
MC	DRMA
PAO	SCS
SGA	ML
ENF	FI

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*r3*

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

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NOV 28 1983



Report No. 23

November 14, 1983 through November 18, 1983

Personnel on Site

Stone & Webster Michigan, Inc.

A. Amoruso	D. Cooke	R. Scallan
S. Baranow	R. Corson	J. Seely
F. Bearham	J. Langston	W. Taylor
J. Barr	C. Marrs	J. Thompson
R. Carpeggiani	D. MacBay	R. Butler
J. Chawla	T. Parker	N. Weatherall
W. Sienkiewicz	A. Smith	S. Narayandas

Meetings Attended

<u>Date</u>	<u>Attendees</u>	<u>Purpose</u>
November 14, 1983 through November 18, 1983	Consumers Power Company Bechtel Power Company Stone & Webster CIO MPQAD	Daily Staff Management Meetings
November 14, 1983 through November 18, 1983	Consumers Power Company Bechtel Power Company Stone & Webster CIO	Team Meetings
November 15, 1983	Consumers Power Company Bechtel Power Company MPQAD Stone & Webster CIO	QVP Status Assessment
November 15, 16, 17, 1983	Consumers Power Company Bechtel Power Company MPQAD Zack Stone & Webster CIO	Area Team and System Team Review Meeting
November 17, 1983	Consumers Power Company Bechtel Power Company MPQAD Stone & Webster CIO	System Team Staff Meeting
November 18, 1983	MPQAD Bechtel Power Company Stone & Webster CIO	CIO Sampling of FCR/FCNs
November 18, 1983	Consumers Power Company Bechtel Power Company Babcock & Wilcox Zack Owens-Corning Grinnell Stone & Webster CIO	Weekly Sub-Contractors Meeting

Meetings

November 14, through November 18, 1983 - during this period, CIO attended daily meetings with staff management and supervision.

Subjects discussed at these meetings were:

- (A) Stop Work Orders - percent completion of Phase I and Phase II activities were addressed. In addition, tentative schedules were addressed of work in all categories covered by Stop Work Orders.
- (B) NonConformance Reports - The details of each NCR were discussed to decide whether the nonconformance was representative of a generic problem. Also discussed were the preventative actions that could be undertaken.
- (C) Training - Bechtel Power Company advised that a revision to the Training Matrix is in the approval cycle and scheduled for issue in the near future. Due to layoffs and the availability of instructors, classes are being re-scheduled for presentation upon completion of the FCR/FCN Review and Resolution Program.
- (D) Document Control - a concerted effort is continuing in the reconciliation of the Design Master Log versus numerous Field Logs.
- (E) Procedure approval and Issuance - Bechtel Power Company management requested the latest status of procedure approval and issuance and asked that responsible personnel devote more time in expediting the development, approval and issuance of required procedures.
- (F) Project Priorities - The project has designated the following activities to be priority items:
  - 1) the need to be responsive in closing-out CPCo commitments to the US NRC and of identified US NRC open items.
  - 2) the need to have all required design documents in place for start of CCP.
  - 3) activities to support Phase I of the CCP
  - 4) activities to support the Remedial Soils Program
  - 5) dispositions to be provided in a timely manner to expeditiously close out FCR/FCNs that are in the Resolution Phase.
  - 6) completion of the remainder of the design activities.
  - 7) any activity to support Phase II of the CCP plus any activity to support B&W or Zack.

November 14 through November 18, 1983 - CIO personnel assigned to respective teams, attended team meetings for discussions of:

- A) Team 12 - Raceway Team Organization and responsibilities were established and identified.
  - turnover packages - 60% were rejected by the Test Engineer for incorrect revisions, illegibility, typing errors. Corrective Action: lead system FEs will submit preliminary turnover packages for review by Test Engineer prior to walkdown.
- B) Teams 26, 27, 28 - Punchlist Coordination Meeting. The purpose of this meeting was to standardize the method of assembling and reporting commodity totals.
- C) BHO Team Staff Meeting - introduction of C. Marrs and W. Taylor of CIO to J. Horn (BHO Supt). Discussion focused on start of CIO evaluation of the BHO Preliminary Hanger Walkdown. In a discussion with MPQAD, CIO was advised that:
  - a) 500 large bore pipe hangers will require reinspection due to location changes
  - b) 200 large bore and small bore hangers will be reinspected upon lifting of the Stop Work Orders. CIO shall perform a sample inspection of these activities
- D) Team 19 - discussion centered on training assignments to Code Level 3. It was strongly emphasized by the team supervisor that individual members of the team must periodically meet with the supervisor for review of scheduled reading assignments.
- E) Team 6 - discussions focused on establishing priorities of work activities currently underway and for future work activities of the CCP.
- F) Team 23 - items discussed were:
  - a) recall of all "old" FCR/FCN forms
  - b) "new" FCR/FCN forms scheduled for issue week of November 21, 1983
  - c) identification requirements of Q and non-Q items on Punchlists
  - d) team is currently developing guide lines for training and orientation of Field Raceway Engineers in order to provide uniform input by the Engineers for statusing and for non-Q work.

Team 14 - items discussed at the weekly meeting:

- a) electrical and mechanical commodity lists which required updating and return on October 24, 1983 has been re-scheduled to November 28, 1983
- b) Action items for Ann Arbor:
  - installation of Monitors - cost effectiveness
  - demolition of walls in electrical and civil areas for equipment ingress/egress
- c) Construction Punchlists (Units 1 and 2):
  - each system/discipline engineer is responsible for providing accurate descriptions of punchlist items
  - each item will be reviewed by Supervision for accuracy
  - updated punchlists will be given to the mapper, daily, for input into the computer
- d) members who will require additional training will be identified on the next revision of the Training Matrix

Teams 25, 26, 27, 28 & 29 - items discussed were open NCRs, it was learned that NCRs were being returned from Ann Arbor directly to the Initiator of the NCR, thereby bypassing the normal routing sequence. This is leading to lost or misplaced documents. This problem will be addressed by team representatives.

Discussion of area completion schedules to review short and long Term Area Turnover requirements and to establish methods of resolving problems which may impact on Turnover schedules.

It was discussed that certain areas of high priority to CPCo are found in low priority modules. These areas could be deferred or missed. CPCo and BPCo will meet to preclude this from occurring. CIO will be in attendance at this meeting.

November 15, 1983 - QVP Status Assessment Meeting. The major restraint affecting Module 340 continues to be the Stop Work Orders issued on the improper use of FCR/FCNs. A schedule for release of the Stop Work Orders has not been established.

November 15, 16, 17, 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
- effect of the Stop Work Orders on restraints

Restraints discussed at weekly meetings are relevant to on-going activities rather than the CCP. Typically they fall into categories such as procurement delays, dispositions 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.

November 17, 1983 - System Team Staff Meeting. At this meeting Team Supervisors and their assistants discuss items that could result in problems and their effect on Corrective Action.

Discussions centered on:

- improvement of hydrostatic testing
- construction work packages - 11 submitted to Supervision - 0 rejected
- re-scheduling and cancellations of training class

November 18, 1983 - FCR/FCN Review and Resolution Program. At this meeting a presentation was given by P. Milano, MPQAD and F. Thomas, BPCo of the functions and purposes of the FCR/FCNs, to CIO personnel. MPQAD and BPCo led CIO personnel step by step from the origin to completion of the FCR/FCNs.

CIO advise MPQAD that a sampling inspection of Phase I "good" FCR/FCNs for the civil and mechanical disciplines was scheduled for November 19, 1983. At the request of R. Wells, CIO delayed the inspections until November 22, 1983 to allow MPQAD to reaudit Phase I activities.



November 18, 1983 - Weekly Sub-contractors meeting subjects discussed at this meeting were as follows:

Babcock and Wilcox -NSSS

- 1) B&W submitted training program to CPCo for approval
- 2) B&W will use Bechtel system for evaluation of classroom training
- 3) B&W are in the process of re-organization of personnel
- 4) B&W announced that there has not been any change in status of open NCRs since the last meeting
- 5) All Q-work has stopped pending completion of B&W retraining

Zack-HVAC

- 1) Training program submitted to MPQAD for approval
- 2) Dispositioning of NCRs is proceeding on schedule
- 3) Verifying through Walkdowns that NCR reject tags have not been removed from rejected items
- 4) Removal of surplus rental equipment from job site

Owens-Corning

- 1) Owens-Corning to provide new milestone dates for insulation completion
- 2) Owens-Corning described the on-going method of providing status of hydrostatic testing

Grinnell

- 1) Approval not received from MPQAD of procedures for the Fire Protection System

ACTIVITIES

1) Training Records

CIO attended and evaluated on construction presentations of classes on:

- Area Release for Construction FPG 7.500 Rev. 1, FIG 7.510 Rev. 0  
(This training course was evaluated by TET and was judged as unsatisfactory)

- Area Construction Completion Activities FIG 7.410 Rev. 1 (This training course was evaluated by TET and was considered satisfactory)
  - Area Status Assessment and Punchlist Development FPG 9.910 Rev (This training course was evaluated by TET and was considered satisfactory)
  - BHO Hanger Walkdown FPM 9.200 Rev. (This class was not evaluated by TET at this presentation)
- 2) System Interaction Walkdown of the Auxiliary Building continues in accordance with Mark Technology Corporation (MTC) Procedure WTP-3-Q "Procedure for Performing Walkdowns of SSIP/S Target's."

Seven (7) interactions were analyzed and documented by Mark Technology Corporation (MTC). CIO witnessed six (6) interactions.

The evaluation of the implementation of the program was judged to be satisfactory and in compliance with MTC procedure WTP-3-Q. The CIO evaluation was performed utilizing Checklist MP-MIS-MJ-002.

- 3) Preliminary Walkdown - CIO performed a verification November 17 and 18, 1983, of the Bulk Hanger preliminary walkdown in Module 340. The walkdown was performed in accordance with the requirements of BPCo procedure FPM 9.200, Rev. 0 "Bulk Hanger Organization Hanger Walkdowns."

Hanger lists were generated by the Team to identify the present installation and inspection status. This data will be processed by being entered into a computer tracking, Material Labor Control System (MLCS).

The evaluation of the implementation of the program was judged to be satisfactory and in compliance with procedure FPM 9.200, Rev. 0. Results of the evaluation have been documented on Checklist MP-MIS-042 BHO Walkdowns.

#### GENERAL

- 1) Mr. R. G. Burns, Assistant Corporate QA Manager was on site November 15 and 16, 1983 for discussions on procedure development and staffing of CIO personnel.
- 2) The following personnel have been assigned to the CIO staff on November 14, 1983:  
Mr. Neal Weatherall, Mechanical QA Engineer  
Mr. Ralph Butler III, Mechanical QA Engineer  
Mr. Srinivasan Narayandas, Trending Analyst

Signed affidavits with resumes of Mr. Neal Weatherall and Mr. Ralph Butler have been transmitted to Mr. J. J. Harrison, US NRC. Signed affidavit of Mr. Srinivasan Narayandas has also been transmitted. His resume will follow when received.

- 3) Protocol Infraction - Copies of the Transcript of the US NRC/Public meeting held on November 10, 1983 were distributed to CPCo and BPCo management, in violation of paragraph 2 of the Protocol.

Mr. J. J. Harrison was advised of this infraction on November 17, 1983 and requested that a copy of the Transcript be transmitted to his office as required by the Protocol. A copy of the Transcript was presented to Mr. R. Cook, US NRC Senior Inspector (site) on November 18, 1983.

Corrective action was taken by CIO management by reinstructing CIO personnel of the Protocol requirements. A memorandum has been issued to all personnel advising that distribution of documents to CPCo, BPCo and sub-contractors will require management approval.

- 4) 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.

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
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  
C10 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	
035	C10 observed that dielectric isolation spacers for galvanic protection of copper pipe to galvanized steel pipe supports were missing in some areas on this system, Small Bore (Instrument Air) KAC Systems, drawing FSK-J-30-0220 Sheet 2 Rev. 7.	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 A8 - 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	C10 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	



Re-worded

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 DOC/DATE	STATUS OPEN/CLOSED	CLOSE-OUT DOC/DATE
010	<p>NIR 008 was issued November 14, 1983 to address 5 unsatisfactory conditions observed during the review of 50 training level assignments representing a lot size of 318 assignments on 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 in question.</p>	Report No. 22 11/14/83		Open	
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 11/21/83		Open	

STONE & WEBSTER MICHIGAN, 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.

P.O. Box 2325, BOSTON, MASSACHUSETTS 02107

PRINCIPAL STAFF	
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SGA	File
ENF	File

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Las

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

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NOV 21 1983

Report No. 22

November 7, 1983 through November 11, 1983

Personnel on Site

Stone & Webster Michigan, Inc.

A. Amoruso	D. Cooke	R. Scallan
S. Baranow	R. Conson	J. Seely
F. Bearham	J. Langston	W. Sienkiewicz
J. Barr	C. Marrs	A. Smith
R. Carpeggiani	D. MacBay	W. Taylor
J. Chawia	T. Parker	J. Thompson
		G. Foley (temporary)

Meetings Attended

<u>Date</u>	<u>Attendees</u>	<u>Purpose</u>
November 7, 1983 through November 10, 1983	Consumers Power Company Bechtel Power Company Stone & Webster CIO MPOAD	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 MPOAD Stone & Webster CIO	QVP Status Assessment
November 8,9,10, 1983	Consumers Power Company Bechtel Power Company MPOAD 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 FSK-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 CCo 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.

1 B. Bailey  
 INITIATOR  
 DATE 11/9/83

PROGRAM MGR S. Sumner  
 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, MICHIGAN, 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 CILIGAN, 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  
C10 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 A8 - 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	



Re-worded



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>	<p>Report No. 20 10/31/83</p>		<p>Open</p>	
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>	<p>Report No. 21 11/7/83</p>		<p>Open</p>	

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
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	
SA	See
D/SA	
AS/SA	
PC	
PO	

*Nov 3*

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

November 8, 1983  
 J. O. No. 14509  
 NRC File #83-11-08

RE: DOCKET NO. 50-329/330  
 MIDLAND PLANT - UNITS 1 AND 2  
 OVERVIEW OF THE CONSTRUCTION ON COMPLETION PROGRAM  
 REPORT NO. 21

A copy of the Construction Implementation Overview Report No. 21 for the period October 31, 1983 through November 4, 1983 is enclosed with this report. No Management Review Committee Meetings were held during this reporting period.

Evaluations of CCP activities including the final report of an allegation of improper welding, and matrices of Open Items, 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, CCo Midland (site)
- RBKelly, S&W
- APAmoruso, S&W
- RGBurns, S&W

NOV 14 1983

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Report No. 21

October 31, through November 4, 1983

Personnel on Site

Stone & Webster Michigan, Inc.

A. Amoruso	D. Cooke	R. Scallan
S. Baranow	R. Corson	J. Seely
F. Bearham	J. Langston	W. Sienkiewicz
J. Barr	C. Marrs	A. Smith
R. Carpeggiani	D. MacBay	W. Taylor
J. Chawla	T. Parker	J. Thompson
		G. Foley (temporary)

Meetings Attended

<u>Date</u>	<u>Attendees</u>	<u>Purpose</u>
November 1, 1983 through November 4, 1983	Consumers Power Company Bechtel Power Company Stone & Webster CIO MPQAD	Daily Staff Management Meetings
November 3, 1983	Consumers Power Company Bechtel Power Company Stone & Webster CIO MPQAD	Bi-Weekly Staff and Meetings with Team Supervisors
November 1, 1983	Consumers Power Company Stone & Webster CIO Bechtel Power Company MPQAD	QVP/Status Assessment
November 2, 1983 and November 3, 1983	Consumers Power Company Bechtel Power Company Zack MPQAD Stone and Webster CIO	Area Team and System Team Review Meeting
November 4, 1983	Consumers Power Company Bechtel Zack B & W Stone & Webster CIO	Weekly Sub-Contractors MTG

November 1, through November 4, 1983 - During this period, CIO attended daily staff management meetings and bi-weekly meetings with staff and team supervisors.

The main focus of attention during the week was the Stop Work Orders issued by MPQAD. At the daily 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
- NCR Dispositions
- Delays in Dispositioning/Closing NCRs
- Audit Findings
- NRC Concerns
- Document Control
- Training Progress
- Progress with Procedure Issuance
- Major Meetings
- Status of System 38
- Other Administrative Activities
- Manpower Loading

Subjects discussed at the bi-weekly meetings with staff, team supervisors and support personnel were:

- Training
- Staffing to support Module 340 activities
- Punch List Coding



### Meetings

November 1, 1983 - QVP/Status Assessment. At this meeting, the main items discussed were assignments of key people to the teams that will assess Module 340 and preparations for this effort.

The major restraint affecting Module 340 is the Stop Work Order issued on the improper use of FCRs and FCNs. A schedule for releasing the Stop Work Order has not yet been established, but for planning purposes, it was decided to assume that the Stop Work Order will be closed and work released on November 30, 1983.

November 2 and 3, 1983 - Area and System Team Review Meetings. At these meetings, an item that is considered to be a restraint is discussed. Action person(s) are assigned to pursue the resolutions for removing restraints. Also discussed is the schedule for completing actions assigned to each restraint item and the progress in meeting the schedule.

### ACTIVITIES

#### 1. Training Records

CIO completed a sampling inspection of Construction Training Records of 8 members of the Field Engineering Staff, 2 members of Area Team Number 24, 5 members of Field Procurement, 4 members of Sub-Contractors, 5 members of Management, and 4 members of the Construction General Services Organization.

Eight-hundred thirty-four (834) individual records were reviewed. The number of discrepancies that were noted resulted in a rejection of the training records for the 28 people sampled and issuance of NIR 007.

Principal categories of discrepancies were:

(a) course roster not completed properly, (b) training classes not documented, (c) reading assignments not documented, and (d) training records not completed consistently.

NIRs 006 and 007 has been issued as a result of these discrepancies.

#### 2. Allegation

On October 26, 1983 - CIO received an anonymous phone call alleging that welding was being performed, contrary to approved procedures. (See CIO Report No. 20, dated October 31, 1983 for details of the initial investigation).

CIO met with Mr. L. Harrison (BPCo) to complete the investigation into the allegation. A weld was selected at random, joint HBC-4-2-1. CIO reviewed the welding records generated during the initial welding and subsequent repair welding on the joint. The initial welding was performed utilizing approved procedure number P1-A-LH. The weld was completed using procedure P1-A-LH and accepted by BPCo and the Authorized Nuclear Inspector on August 9, 1981. This particular weld later became the subject of NCR 2781 for being undersized. A repair was made using approved procedure P1-T-B. This repair was inspected and accepted by BPCo and the Authorized Nuclear Inspector. A review of the code (QW-2.01.3 and QW-202.2) indicated that either P1-A-LH or P1-T-B could be used singly or in combination. In addition, BPCo Technical Specification G-27, Subsection Form 84 Mechanical allows the use of either P1-A-LH (SMAW) or P1-T (TIG) for this weld.

In conclusion, CIO has determined that the allegation was factual with regard to the weld sequence. As the BPCo procedures utilized were approved and the intent of ASME code and the Technical Specification were complied with, CIO has determined that no non-compliance conditions exist. This closes the CIO investigation of the allegation.

### 3. PQCI Stop Work Order

On November 3, 1983 - MPQAD issued a Stop Work Order on the use of eight Electrical/Instrumentation PQCI's. The PQCI's specified inspection requirements for in-process and final inspections of welding, but these requirements were not consistent.

The potential for this problem was discussed in CIO Weekly Reports numbers 9, 11 and 18.

### 4. FCR/FCN Stop Work Orders

On October 22, 1983 - MPQAD issued Stop Work Orders because of concerns about processing design changes.

CIO has been attending meetings of the Stop Work Steering Committee and is developing checklists for use in evaluating steps taken to resolve FCR/FCN discrepancies. Attributes for these checklists are being extracted from.

(a) Flow Chart Plan

(d) FID - 2.400 Rev. 4

(b) FPD - 1.000 Rev. 16

(e) PEP - 4.62.1 Rev. 0

(c) FPD - 2.000 Rev. 10

(f) ADP - 2.12 Rev. 0

In addition, a sampling of FCR/FCNs will be reviewed to determine the adequacy of corrective actions.

GENERAL

1. Signed affidavit and resume of W. C. Taylor, Assistant Superintendent of Field Quality Control, has been transmitted to Mr. J. J. Harrison, US NRC, Glen Ellyn, IL.
2. In accordance with the latest PQCI Control Log dated October 26, 1983, 65 PQCIs are listed as active. The status of CIO checklists for these PQCIs follows:
  - (a) approved - 37
  - (b) under revision and draft review - 28

Zack Training

3. In accordance with a pre-established CIO monitoring schedule of Zack activities, CIO performed a review of 36 training records of 2 Field Engineers. Results were determined to be satisfactory and were documented on Checklist MP-MIS-Z-025 which was developed to meet the requirements of Zack MB-F-16 "On-going Training" Rev. 1.

This procedure is being revised to include matrices, required reading lists and formalizing training packages.

This revision is currently in review by MPQAD. Upon receipt of the approved version, CIO will develop a new Checklist and repeat the evaluation.

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	

STONE & WEBSTER MICHIGAN, 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 us 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 MICHIGAN, 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			

STONE AND WEBSTER ENGINEERING CORPORATION  
NONCONFORMANCE IDENTIFICATION REPORT

QCI 15.01  
Attachment 4.1  
Revision 2  
Page 1 of 2

DATE OF NONCONFORMANCE: November 7, 1983		NIR NUMBER 007
<u>IDENTIFICATION/LOCATION OF ITEMS:</u>		
<p>DESCRIPTION OF NONCONFORMANCE:</p> <p>During the review of 834 non-manual Construction Training Records, two areas of discrepancies were observed which were not in compliance with the requirements of FPG-2.000 Rev. 5, "Training of Construction Personnel." (The following Teams were evaluated #24, Field Procurement, Sub Contractors, Managements, F.E. Staff, and CGSO.</p> <p>(See attached for descriptions fo Discrepancies)</p>		
<u>Walter H. Siemkiewicz</u> INITIATOR		PROGRAM MGR <u>[Signature]</u>
DATE <u>NOVEMBER 7, 1983</u>		DATE <u>November 7, 1983</u>
CORRECTIVE ACTION BY:		
IDENTIFY ORGANIZATION TAKING CORRECTIVE ACTION		
VERIFICATION    SAT    UNSAT INITIATOR _____ DATE _____	NEW NIR#  DATE _____	CONCURRENCE PROGRAM MGR _____ DATE _____
REMARKS		

NIR 007

- 1) Course Rosters Attachment D to FPG-2000 exhibited one or more of the following discrepancies.

<u>BLOCK NO.</u>	<u>ENTRY REQUIRED</u>	<u>ENTRY RECORDED</u>
1	CCP	DWG. No. Fig. No. Course No.
2	(a) Name of lesson (b) Procedures (c) Revision	Either a, b, or c missing
6	Location of Session	Bechtel

In addition some entries  
were left blank

- 2) In addition to these violations, inconsistencies were noted in 6 areas:

(1) Modification to records, some lined through, signed and dated and others simply lined through. (2) Some entries on course register are completed using pencil while most are in ink. (3) Difficulty is experienced in determining the accuracy of records where attendance at a course carries credit for several others. (4) Some entries carried the revision number to procedures and some omitted the revision. (5) Proper "Course Roster Form" as listed in Procedure FPG-2.000 were not utilized. (6) Some courses on Rosters contain information not identical to matrix listing.

It is recommended that the disposition to this NIR include a commitment to verify training records of each individual prior to status assessment assignment.

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	C10 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	



Re-worded



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.

P.O. Box 2325, BOSTON, MASSACHUSETTS 02107

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

October 31, 1983  
J.O. No. 14509  
NRC File #83-10-31

RE: DOCKET NO. 50-329/330  
MIDLAND PLANT - UNITS 1 AND 2  
OVERVIEW OF THE CONSTRUCTION COMPLETION PROGRAM  
REPORT NO. 20

A copy of the Construction Implementation Overview Report No. 20 for the period October 24, 1983 through October 28, 1983 is enclosed with this report. No Management Review Committee meetings were held during this reporting period.

Matrices of Open Items, Hold Points, NIRs and evaluations of CCP activities, as appropriate, are attached. In addition, a report in the investigation of an allegation of improper welding is underway.

Very truly yours,

S. W. Baranow  
Program Manager

SWB/ka

cc: JHarrison, US NRC, Glen Ellyn, IL  
RCook, US NRC, Midland (Site)  
DLQuamme, CCo, Midland (Site)  
RBKelly, S&W  
APAmoruso, S&W

~~8312060199~~

Report No. 20

October 24, 1983 through October 28, 1983

Personnel on Site

Stone & Webster Michigan, Inc.

A. Amoruso	D. Cooke	R. Scallan
S. Baranow	R. Corson	J. Seely
F. Bearham	J. Langston	W. Sienkiewicz
J. Barr	C. Marrs	A. Smith
R. Carpeggiani	D. MacBay	J. Thompson
J. Chawla	T. Parker	,

Meetings Attended

<u>Date</u>	<u>Attendees</u>	<u>Purpose</u>
October 24, 1983 through October 28, 1983	Consumers Power Company Bechtel Power Company Stone & Webster CIO MPQAD	Daily Staff Management Meetings
October 24, 1983	Consumers Power Company Bechtel Power Company Stone & Webster CIO MPQAD	Bi-Weekly Staff and Meetings with Team Supervisors
October 25, 1983	Consumers Power Company Stone & Webster CIO Bechtel Power Company MPQAD	QVP/Status Assessment
October 26, 1983 and October 27, 1983	Consumers Power Company Bechtel Power Company Zack MPQAD Stone and Webster CIO	Area Team and System Team Review Meeting
October 27, 1983	Consumers Power Company Bechtel Zack Stone & Webster CIO	NRR Meeting
October 28, 1983	CPCo BPCo MPQAD S&W CIO	NRC Exit Meeting

JOB NO. 14509  
MIDLAND NUCLEAR POWER PLANT  
REPORT NO. 20  
PAGE 2

October 24, 1983 through October 28, 1983 - during this period, CIO attended daily staff management meetings and bi-weekly meetings with staff and team supervisors.

The main focus of attention during the week has been the Stop Work orders issued by MPQAD. At the daily 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
- NCR Dispositions
- Delays in Dispositioning/Closing NCRs
- Audit Findings
- NRC Concerns
- Document Control
- Training Progress
- Progress with Procedure Issuance
- Major Meetings
- Status of System 38
- Other Administrative Activities
- Manpower Loading

Subjects discussed at the bi-weekly meetings with staff, team supervisors and support personnel were:

- Training
- Staffing to support Module 340 activities
- Punch List Coding

### Meetings

October 25, 1983 - QVP/Status Assessment Meeting. This was the first QVP/Status Assessment Meeting and it was held under the joint chairmanship of MPQAD (B. Palmer) and BPCo (T. Valenzano). T. Valenzano made a brief statement explaining the purpose of the meeting. This initial meeting was to explain the format for future meetings.

A two part hand-out was distributed and a brief walk-through of typical agenda items was conducted.

B. Palmer stated that all inaccessible items do not have to be completely evaluated for Phase I.

The agenda for the upcoming meeting between Mark Technologies (MT) and BPCo was described. It was stated that MT had some findings against the design of the plant although the exact details were not known.

Training stated that the training of the teams was almost finished.

October 26 and 27, 1983 - Area and System Team Review Meetings. At these meetings, any item that is considered to be a restraint is discussed. Action person(s) are assigned to pursue the resolutions for removing restraints. Also discussed is the schedule for completing actions assigned to each restraint item and the progress in meeting the schedule.

October 27, 1983 - US NRI Meeting. At this meeting, the agenda items were related to the design of the HVAC System.

Specific agenda items were:

- Results of Tensile Testing of HVAC Welds
- Material Traceability of Red Head and Hilti Bolts
- Calculations on Prying of Expansion Anchor Bolts
- Review of calculations of Dome Supports
- Discrepancy between drawing and specification on hanger spacing: drawing revised to reflect as built conditions which comply with specification requirements

No open items were identified by the US NRI



October 28, 1983, US NRC - Exit Meeting. At this meeting the following open HVAC related agenda items were discussed.

- 1) Report RPT 8308 - hardness testing of three A-307 bolts indicated values of 102 and 104 on the Brinnellscale, maximum allowable is 100. The out of specification values were considered acceptable by US NRC.
- 2) Report RPT 8318-8319 - sixty-eight (68) samples of the bronze welding of hangers, supports and duct work weretensile tested, bend tested and micro-etched. Results of the tests were satisfactory and accepted by the US NRC.
- 3) Of eleven allegations received by the US NRC during 1979, 1980 and 1981, ten were considered to be closed items. The eleventh item is considered satisfactory, however the US NRC has this as an open item for tracking purposes.

#### ACTIVITIES

##### 1. Training Records

- a) sampling of training records of the Construction Field Engineering Staff and the Construction General Services Organization is continuing during this period.
  - b) a review of the origin and the adequacy of the Construction Training Matrix is underway.
  - c) NIR 006 has been issued October 27, 1983 to address discrepancies observed during the 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), BHO Team Staff.
- 2) CIO witnessed the tensile testing of 90 HVAC welded specimens in accordance with Zack Company proposal titled "Program to Evaluate Past Welding to Photon Procedures". The tensile testing was performed at the CPCo laboratory in Jackson, Michigan and was in accordance with approved CPCo procedure Number MET-11 "Tension Testing of Weld Assemblies."

Specimen types were:

- 30 each - sheet to sheet welding
- 30 each - sheet to structure welding
- 30 each - structure to structure welding

All results exceeded the calculated in service load values. The results were considered satisfactory and were documented on MP-MIS-Z-039, "Program to Evaluate Past Welding to Photon Procedures."

### 3) Allegation

On October 26, 1983 - CIO received an anonymous phone call at 1:10 PM alleging that welding was being performed, contrary to authorized procedures. Specifically the party alleged that: "Bechtel Weld Procedures, P1-T-B and P1-A-LH, were unapproved for the sequence they were being used."

The party stated that there were numerous carbon steel socket welds in the Turbine and Auxiliary Buildings that were originally made using the SMAW (P1-A-LH) process. The welds were undersized and the balance of the weld was made using the TIG (P1-T-A) process.

CIO immediately notified the US NRC (Mr. R. Cook) and CPCo (Mr. B. Peck) of the allegation and advised that an investigation of the allegation would be conducted. CIO conducted its own investigation in the plant area, and the inspection of a weld on line EBD-103 revealed that a weld had originally been made using the SMAW process and a partial weld (probably a repair) had been placed over the original deposited weld filler metal. This observation confirmed that the allegation had merit and should be further investigated.

CIO then notified BPCo, (Mr. G. Hierzer) who immediately made Mr. L. Harrison (BPCo) available to assist in the investigation.

On October 27 - CIO met with Messrs. L. Harrison and S. Sprague (BPCo). CIO was shown an approved chart that indicated that both weld procedures were authorized for the welds on the EBD system. (NOTE: It was also determined that the EBD system was in fact non-Q)

CIO will obtain copies of portions of the ASME III Code applicable to Midland as well as copies of inspection records on a Q system to complete the investigation into the allegation.

The initial finding by CIO is that the welds were made in a sequence described by the informant and that the sequence is authorized and approved. It is anticipated that the investigation will be concluded during week ending November 4, 1983.

GENERAL

- 1) Signed affidavits, with copies of resumes of the following Stone & Webster personnel have been transmitted to Mr. J. J. Harrison, US NRC, Glen Ellyn, IL.
  - Mr. C. A. Marrs, Consultant Field Quality Control Division reported to job site on October 24, 1983
  - Mr. D. M. MacBay, Level II Inspector, Mechanical, reported to job site on October 24, 1983
- 2) Copies of revised CIO procedures, instructions are attached for information.
  - Project Quality Assurance Plan Rev. 2
  - Third Party Construction Implementation Overview Rev. 2 October 26, 1983
  - QCI 10.05 Rev. 0 October 14, 1983 CIO Monitoring Inspection
  - OCI 15.02 Rev. 0 October 7, 1983 Trend Analyses

STONE & WEBSTER MICHIGAN, 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 us 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 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 A8 - 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.Kepler 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 as a result of sampling inspections of 45 MPQAD Training Records. 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 AND WEBSTER ENGINEERING CORPORATION  
NONCONFORMANCE IDENTIFICATION REPORT

QCI 15.01  
Attachment 4.1  
Revision 2

PAGE 1 OF 2

DATE OF NONCONFORMANCE: <u>OCTOBER 27, 1983</u>		NIR NUMBER <u>006</u>
IDENTIFICATION/LOCATION OF ITEMS: <u>BECHTEL DOCUMENT CONTROL CENTER</u>		
DESCRIPTION OF NONCONFORMANCE: During the review of 2054 non-manual Construction Training Records, three areas of discrepancies were observed which were not in compliance with the requirements of FPG-2.000 Rev. 5, "Training of Construction Personnel." (The following Teams were evaluated #5, 6, 8, 9, 12, 13, 16, 17, 19, 20, 25, 26, (27/28), 29, 30, 31, 32/33), CH0 Team Staff.  (See attached for descriptions of Discrepancies)		
<u>Walter H. Sienkiewicz</u> INITIATOR		PROGRAM MGR <u>Subramaniam</u>
DATE <u>October 28, 1983</u>		DATE <u>October 28, 1983</u>
CORRECTIVE ACTION BY:  IDENTIFY ORGANIZATION TAKING CORRECTIVE ACTION		
VERIFICATION <u>SAT</u> <u>UNSAT</u>	NEW NIR#	<u>CONCURRENCE</u>
INITIATOR _____	DATE _____	PROGRAM MGR _____
DATE _____		DATE _____
REMARKS		

- 1) Course Rosters Attachment D to FPG-2.000 exhibited one or more of the following discrepancies.

<u>BLOCK NO.</u>	<u>ENTRY REQUIRED</u>	<u>ENTRY RECORDED</u>
1	CCP	DWG. No. FIG. No.
2	(a) Name of lesson (b) Procedures (c) Revision	Either a, b, or c missing
6	Location of Session	Bechtel
10	(a) Signature (b) Print Last Name	Either a or b missing
5	Instructor Name	Instructor Department
	In addition many entries were left blank	/

- 2) Reading Records Attachment C to FPG-2.000 exhibited one or more of the following discrepancies:

Reading Record

- 1) The department and or assignment lines are illegible or incomplete.
- 2) Assigned reading performed on October 11, 1983 and September 29, 1983 were not documented on Reading Form Attachment C, Rev. 5.
- 3) Team Records and TSR (Training Status Report) show training completed Document Control Files showed no record of training. For example:

<u>NAME</u>	<u>TEAM #</u>	<u>TRAINING REQUIREMENT</u>	<u>DISCREPANCY</u>
Kranzfelder	Management	FPD-2.000 Code 2	No Record in File
J. Hull	32/33	M-204 Code 5	No Record in File

In addition to these violations, inconsistency was noted in 4 areas: (1) Modification to records, some lined through, signed and dated and others simply lined through. (2) Some entries on course register are completed using pencil while most are in ink. (3) Difficulty is experienced in determining the accuracy of records where attendance at a course carries credit for several others. (4) Some entries carried the revision number to procedures and some omitted the revision. (5) Proper "Course Roster Form as listed in Procedure FPG-2.000 were not utilized. (6) Some courses on Rosters contain information not identical to matrix listing.

It is recommended that the disposition to this NIR include a commitment to verify training records of each individual prior to status assessment assignment.

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	

J.O. No. 14509  
Midland Plant Units 1 & 2  
Consumer Power Company  
Third Party Construction  
Implementation Overview

PROJECT QUALITY ASSURANCE PLAN

Approvals:

Dates:

*John Burman*  
Program Manager

October 05, 1983

*C. Dutton for*  
Chief Engineer  
Engineering Assurance

October 20, 1983

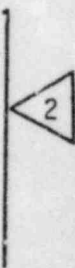
*Richard B. Kelly*  
Manager  
Quality Assurance

OCTOBER 20, 1983

SCOPE

This procedure describes the quality assurance plan for activities performed by Stone & Webster Michigan (S&W) for the Consumers Power Company's (CPCo) Midland Plant- Units One and Two. The work involved in this third party overview is described in applicable CPCo specifications and procedures and shall be accomplished in the following manner:

- a. Development of an overview program and preparation of a Project Quality Plan.
- b. Review of the design and construction documents to gain familiarity with the work.
- c. Assessment of the adequacy of technical and related administrative construction and quality procedures.
- d. Assessment of the degree of compliance with technical and administrative construction and quality procedures.
- e. Assessments are made by conducting audits, monitoring (surveillance) inspections, and redundant (sample) inspections.
- f. Daily reviews as necessary with the Owner to obtain any clarifying information and project documents that are needed to carry out this program. The Owner and S&W will establish a specific communication plan at the start of the work.
- g. Submittal of brief weekly progress reports and a final report to the NRC with a copy to CPCo.
- h. S&W will not be responsible for implementing corrective action, however, their professional opinion may be requested.





PROGRAM REQUIREMENTS AND ACTIVITIES

I. ORGANIZATION

The overall Stone & Webster Engineering Corporation (SWEC) organization is depicted in SWSQAP 1-74A (Section I). A Program Manager will function as the site leader for the third party overview. Project organization is described in the Project Program Plan.

II. QUALITY ASSURANCE PROGRAM

The overall SWEC quality assurance program is designed to provide assurance that all SWEC activities are accomplished in a controlled manner. The SWEC corporate QA program complies with 10CFR50, Appendix B, and NRC Regulatory Guides, and is described in an NRC approved topical report, SWSQAP 1-74A, "Standard Nuclear Quality Assurance Program."

This quality assurance plan shall be maintained up-to-date to reflect any changes in the scope of S&W work.

This quality assurance plan identifies the procedures which implement the overall QA program as it applies to the S&W scope. Insofar as possible, applicable standard SWEC procedures will be used to govern the work. When standard procedures do not fit project circumstances, project procedures will be issued to govern the work. Variances from standard SWEC procedures will be approved according to Quality Standard (QS) 5.1 and Engineering Assurance Procedure (EAP) 5.7.

Personnel performing activities in accordance with this plan requiring qualification and certification will be qualified and certified in accordance with Quality Standard 2.12 and Quality Assurance Directive 2.5.

III. DESIGN CONTROL

(Not within the S&W scope)

IV. PROCUREMENT DOCUMENT CONTROL

Consulting Services, as required, are procured in accordance with Engineering Assurance Procedures 4.1 and 4.15, which are supplemented by Project Procedure (PP) (LATER).

V. INSTRUCTIONS, PROCEDURES, AND DRAWINGS

S&W procedures, including variances, are prepared and controlled in accordance with Section II of this QA plan.

(Instructions, drawings and specifications are not within the S&W scope).

VI. DOCUMENT CONTROL

Plans, procedures, instructions, and documents prepared and implemented by S&W will be controlled per PP (later).

VII. CONTROL OF PURCHASED MATERIAL, PARTS, EQUIPMENT, AND SERVICES

(Control of Purchased Material, Parts and Equipment - not within the S&W scope).

Control of Services is in accordance with Engineering Assurance Procedure 7.1.

VIII. IDENTIFICATION AND CONTROL OF MATERIAL, PARTS, AND COMPONENTS

(Not within the S&W scope)

IX. CONTROL OF SPECIAL PROCESS

(Not within the S&W scope)

X. INSPECTION

Monitoring inspections are conducted on a surveillance basis to assess on-going CCP activities. Redundant sample inspections are conducted after acceptance of an area, commodity, or product by CPCo as a final assessment measure.

XI. TEST CONTROL

(Not within the S&W scope)

XII. CONTROL OF MEASURING AND TEST EQUIPMENT

(Not within the S&W scope)

XIII. HANDLING, STORAGE, AND SHIPPING

(Not within the S&W scope)

XIV. INSPECTION, TEST, AND OPERATING STATUS

(Not within the S&W scope)

XV. NONCONFORMING MATERIAL, PARTS, OR COMPONENTS

Nonconformances observed by S&W during monitoring and sample inspections are reported in writing to the NRC with copy to CPCo. These reports will be used in establishing the extent of inspection and adjustments to the extent of inspection by trend analysis.

XVI. CORRECTIVE ACTION

The criteria for the identification of conditions that require review to determine reportability under 10CFR50.55(e) and/or 10CFR21 are defined in QS/EAP-16.2 and QS/EAP-16.3, respectively. Identified conditions are processed for review/evaluation in accordance with Project Procedure "Nonconformance Identification and Reporting."



XVII. QUALITY ASSURANCE RECORDS

S&W General Policy and Procedure for records collection, retention, and turnover to Consumers Power Company are described in QS-17.1, EAP-17.2 and QAD-17.1 and as detailed in the scope under items f. and g. QAD-17.1 and EAP-17.2 are supplemented by PP (LATER).

XVIII. AUDITS

Audits of the S&W CIO program are performed in accordance with QS-18.1 and QAD's 18.1 and 18.2.

THIRD PARTY CONSTRUCTION IMPLEMENTATION OVERVIEW

Approval:

Richard C. Kelly Date 10/26/83  
Manager Quality Assurance

Subramanian Date 10/28/83  
Program Manager

1.0 PURPOSE AND SCOPE

To establish a program whereby Stone & Webster Michigan (S&W) performs independent evaluations and verifications of the Consumers Power Company (CPCo) Construction Completion Program, (CCP) reports progress, observations, and non-conformances to the program; specifically, to verify:

1.1 Management performance is adequate in the following areas:

- A. Establishment of the Management Review Committee
- B. Duties and responsibilities of the Review Committee are clearly defined
- C. Procedures governing the actions of the Review Committee are in place
- D. Management reviews are complete, effective, and conducted in accordance with the requirements of the CCP Program

1.2 CCP procedures, instructions, inspection plans, records, and prerequisites for inspections/reinspections have been satisfactorily approved prior to implementation.

1.3 Specific CPCo commitments to the NRC are identified to facilitate tracking; dates for compliance (as appropriate) are adequately identified; appropriate action parties are clearly identified; committed actions have been satisfactorily resolved.

1.4 Procedures, prerequisites, and reinspection attributes in References 2.1, 2.2 and 2.3 have been approved by the Management Review Committee.

- 1.5 Personnel assigned to implement the CCP Program have been properly trained, qualified and certified in accordance with the requirements of ANSI-N45.2.6; SNT-TC-1A and MPQAD Procedure B-3M-1, Qualification and Certification of Inspection and Test Personnel. Construction and craft personnel shall be trained to meet the requirements of the Construction Training Procedure FPG-2.000.
- 1.6 The effectiveness of the Quality Verification Program based on witnessing inspections/reinspections of selected component installation, fabrication and review of applicable test/inspection reports and records.
- 1.7 Measures have been developed to ensure that NRC hold points are clearly identified and controls are in evidence to prevent continuance of work pending clearance of the hold points. "

## 2.0 REFERENCES

- 2.1 Quality Verification Program Document, April 16, 1983
- 2.2 Construction Completion Program
- a. Letters J.W. Cook to the NRC: January 10, 1983  
April 6, 1983  
April 22, 1983  
August 26, 1983
- 2.3 Nonconformance Identification and Reporting Procedure

## 3.0 ATTACHMENTS

- 3.1 Evaluation Attribute Checklist
- 3.2 Verification Attribute Checklist
- 3.3 Nonconformance Identification Report

## 4.0 DEFINITIONS

### 4.1 Construction Completion Program (CCP)

A program to provide guidance in planning and management of design and quality activities necessary for completion of construction of the plant and verification of completed work.

### 4.2 Quality Verification Program (QVP)

An element of the CCP used to confirm the quality status of safety related procurement and construction activities completed and inspected by the Engineer-Constructor personnel prior to December 2, 1982.

### 4.3 Evaluation

Assessment of quality related activities based upon review of procedures, plans, instructions, inspection reports, test results and additional commitments.



NOTE

Documentation resulting from resolution of CPCo commitments to the NRC and NRC Hold Points shall be 100% reviewed to verify that proper corrective action has been accomplished.

4.4 Verification

Confirming, substantiating or assuring that CCP and QVP requirements have been implemented and are adequate. Verification actions may include documentation, hardware and management systems.

NOTE

Verification of the CCP and QVP Programs will be accomplished by monitoring and sample inspections in sufficient detail to ensure adequate CPCo implementation.

5.0 GENERAL REQUIREMENTS

- 5.1 All personnel assigned quality assurance program evaluation responsibilities shall be certified auditors in accordance with ANSI-N45.2.23 and applicable SWEC procedures.
- 5.2 All personnel assigned construction verification responsibilities shall be certified inspectors in accordance with ANSI-N45.2.6 and applicable SWEC procedures and possess the appropriate combination of education, experience and training.
- 5.3 The Third Party Construction Implementation Overview (CIO) program will be structured to determine, by evaluation of predetermined procedures and instructions, the quality practices utilized in the construction of the Midland Plant Units 1, 2, and the effectiveness of those practices.
- 5.4 A site team will be established to monitor the effectiveness of the Construction Completion Program. The team will consist of a Program Manager and two functional groups. One group will assess the completeness of compliance with procedures and inspection plans being used to complete the work. The other group will review certain aspects of construction activities which relate to the performance of the Quality Control Inspection Program. These two groups will use special procedures, attribute checklists, and random sampling techniques to evaluate the following:
  - A. Adequacy and implementation of CPCo procedures regarding construction activities, personnel qualification, training programs, and organizational practices.
  - B. Compliance of Construction Completion Program teams to prescribed procedures.

- C. Compliance of Midland Project Quality Assurance (MPQAD) personnel to applicable inspection procedures.
  - D. Compliance of construction activities to applicable procedures.
- 5.5 The Program Manager shall maintain communications with the NRC and CPCo Site Manager. Monthly progress meetings shall be held with the NRC and CPCo to discuss progress and report on nonconformance and observations.
- 5.6 Programmatic nonconformances of a serious nature shall be immediately reported to the NRC and CPCo.

#### 6.0 PROCEDURES

- 6.1 The following procedures shall be prepared to control the activities of the Construction Implementation Overview (CIO) teams.
- A. Quality Control Instruction 10.01 Construction Implementation Overview Assessment
- 6.2 The site teams shall develop attribute checklists for each evaluation and verification activity. Attributes shall be selected from the CCP, PQCI's, CPCo commitments to the NRC and other applicable requirements.
- 6.3 Auditors assigned to conduct evaluations shall, utilizing attribute checklists, verify that acceptable quality practices are evident in the performance of each activity.
- The results of each evaluation shall be documented on the attribute checklist to ensure repeatability. Summaries of the results shall be tabulated weekly for presentation to the NRC and CPCo.
- 6.4 Inspectors assigned to conduct verification shall, utilizing the checklist, monitor the activities of CPCo personnel involved in CCP and QVP activities.
- 6.5 All systems verified shall be identified and documented to assure repeatability.
- 6.6 Nonconformances identified in conjunction with this procedure shall be documented on a Nonconformance Identification Report (NIR) and processed in accordance with Reference 2.3 of this procedure.

#### 7.0 REPORTS

- 7.1 The following reports will be submitted to NRC and CPCo and S&W by the Program Manager.
- A. Weekly Progress Reports
  - B. Monthly Meeting Reports
  - C. Final Reports on Construction Completion

- 7.2 Weekly Progress Reports - Weekly Progress Reports will be submitted to the USNRC and CCo.
- 7.3 Monthly Meeting Report - The Monthly Meeting Report shall consist of the minutes of monthly meetings conducted by the USNRC with the public in attendance. Copies of the minutes of the meetings shall be transmitted to the USNRC and CCo.
- 7.4 Final Report - A final report will be submitted 30 days after completion of the program. The report will summarize the S&W assessment. The final report will be submitted by the Program Manager to the NRC, CCo and S&W.

<b>STONE &amp; WEBSTER</b>  <b>QUALITY CONTROL INSTRUCTION</b>	QCI NO. 10.05	REV. 0	DATE 10 / 83	PREPARED BY J.C. Thompson
	DIVISION CIO		LOCATION MIDLAND	
	APPLICABILITY MIDLAND		APPROVED BY <i>J.C. Thompson 10/28/83</i>	
	RE: PROCEDURE QS-4.2		<i>Richard B. Kelly 10-27-83</i>	
	SUBJECT CIO MONITORING INSPECTION			

#### 1.0 PURPOSE AND SCOPE

To establish a system for planning, conducting and documenting Construction Implementation Overview (CIO) inspections. This QCI shall be applicable to Babcock Wilcox, NSSS and Zack HVAC activities.

#### 2.0 REFERENCES

2.1 QCI 10.01 - CONSTRUCTION IMPLEMENTATION OVERVIEW ASSESSMENT

#### 3.0 ATTACHMENTS

3.1 None

#### 4.0 GENERAL

4.1 The CIO Program shall assure proper implementation of QA/QC programs through systematic evaluations of records, methods, procedures, and activities. Inspections shall assure conformance of materials, processes and/or services to the requirements specified in engineering, construction and QA/QC documents and procedures. An inspection checklist, as delineated in Reference 2.1, shall be used as the basis for monitoring inspections.

4.2 As a minimum, the monitoring program shall encompass each quality related activity or each section of the QA program being monitored as indicated on the inspection schedule.

4.3 CIO shall perform all monitoring inspection functions, i.e., prepare schedules, inspection checklists; perform monitoring inspections and document results.

4.4 Monitoring inspection results shall be documented and reported in accordance with Paragraph 5.3.

#### 4.5 Responsibilities

4.5.1 The CIO Program Manager is responsible for the implementation and control of the Monitoring Inspection Program at the construction site.

4.5.2 The CIO Program Manager is also responsible for evaluating results and effectivity of the program.



## 5.0 PROCEDURE

### 5.1 Scheduling

- 5.1.1 Schedules of monitoring inspection activities shall be based on workload and areas where activities to be monitored are in progress, where known or potential problem areas exist, and where the review of NCRs indicates negative trends.
- 5.1.2 CIO shall prepare a monitoring schedule on a semi-annual basis and update it to reflect changes when deemed necessary.
- 5.1.3 Additional inspection of products or processes may be performed based on types of activities in progress. These inspections are not scheduled but are supplemental to the required inspections. They shall be documented in accordance with Paragraph 5.3.

### 5.2 Attribute Checklist

- 5.2.1 CIO shall prepare attribute checklists for all monitoring inspection activities indicated on the inspection schedule using the applicable documents that effect quality, i.e., PQCI's, specifications, codes, contractor QA/QC programs, engineering and construction department procedures, etc. The attribute checklist delineates specific items that require inspection.
- 5.2.2 In preparing attribute checklists, the responsible monitoring inspector shall interface with the appropriate Babcock & Wilcox/Midland Plant Quality Assurance Department (BW/MPQAD) inspector as necessary to assure that the pertinent activity will be adequately monitored.
- 5.2.3 An attribute checklist will be established as a standard and define the minimum requirements for the inspection. The inspector may add additional attributes as conditions warrant, e.g., adverse trends. Attributes that are not applicable to a specific inspection shall be identified as N/A and not be deleted.
- 5.2.4 All specifications, procedures, drawings, etc., and revisions thereto used during monitoring shall be referenced on the checklist.
- 5.2.5 The monitoring results shall be transmitted to the NRC and CPCo summarizing the results of the inspections.
- 5.2.6 All checklists shall be prepared in accordance with the requirements of Reference 2.1.

### 5.3 Monitoring Inspection Reporting

- 5.3.1 The result of scheduled and unscheduled monitoring inspections shall be documented using the attribute checklist. All results shall be described in sufficient detail to ensure repeatability of inspections.



5.3.2 The attribute checklist shall document all areas, items and details observed. It shall also identify both satisfactory and unsatisfactory findings.

5.4 Maintenance of Documentation

5.4.1 CIO shall maintain a file of all completed attribute checklists, and related documentation.

STONE & WEBSTER  QUALITY CONTROL INSTRUCTION	QCI NO.	15.02	REV.	0	DATE	7/83	PREPARED BY	W.H. Grieves
	DIVISION	FOC			LOCATION	MIDLAND		
	APPLICABILITY	MIDLAND			APPROVED BY	<i>Richard O'Kelly 10/21/83</i> <i>Richard O'Kelly 10/21/83</i>		
	RE: PROCEDURE	N/A						
	SUBJECT	TREND ANALYSIS						

#### 1.0 PURPOSE AND SCOPE

To establish the procedure for evaluation of CIO verification and evaluation results for the purpose of identifying significant and recurring quality problems.

#### 2.0 REFERENCES

- 2.1 SWEC Third Party Construction Implementation Overview (CIO).
- 2.2 SWEC Project Quality Assurance Plan.
- 2.3 Construction Completion Program.

#### 3.0 ATTACHMENTS

- 3.1 Quality Trend Report

#### 4.0 GENERAL

- 4.1 CIO activities are designed to assess the Midland Station QA Program implementation through the performance of evaluations/verifications and the analysis of results. Analysis will be performed to determine effective implementation of the PQCI's and the effectiveness of the CCP teams.

#### 5.0 RESPONSIBILITIES

##### 5.1 Evaluation/Verification Supervision:

- 5.1.1 Review and approval of CIO attribute checklists.
- 5.1.2 Review and evaluation of evaluation/verification results for the purpose of identifying significant and recurring quality problems.

##### 5.2 Evaluation/Verification Personnel:

- 5.2.1 Performing and documenting CIO evaluations/verifications.
- 5.2.2 Updating the CIO Evaluation/Verification Status Log as activities are performed.

## 6.0 PROCEDURE

- 6.1 The Evaluation/Verification Supervisors shall review the Evaluation/- Verification Status Log on a monthly basis for significant and recurring quality problems.
- 6.2 Results of the analysis shall be documented on a monthly Quality Trend Report (QTR) from the Program Manager to the Regional Administrator. The QTR shall contain as a minimum:
- 6.2.1 A summary of CIO activities within the month and cumulative.
- Checklists Initiated
  - Teams Evaluated
  - Sampled Lots Passed
  - Sampled Lots Failed
  - NIR's Issued
- 6.2.2 A detailed breakdown of checklists completed for each team, both for the month and cumulative.
- Total Checklists
  - Total Observations
  - Unsatisfactory Observation
  - Sample Lots Rejected
  - Number of NIR's Issued
  - Narrative summary of conclusions based on review of the activities and the individual unsat observations.
- 6.2.3 A detailed breakdown of checklists completed for each PQCI, both for the month and cumulative.
- Total Checklists
  - Total Observations
  - Unsatisfactory Observations
  - Sample Lots Rejected
  - Number of NIR's Issued
  - Narrative summary of conclusions based on review of the activities and the individual unsat observations.
- 6.2.4 Trend charts may be included to graphically display negative trends determined either by PQCI or team, as applicable.
- 6.3 Significant problem areas identified in the QTR shall be addressed by separate memo to CPCo for corrective action.

CIO MONTHLY TREND REPORT

I. SUMMARY

	<u>PERIOD</u>	<u>TOTAL TO DATE</u>
A. Checklists Completed	_____	_____
B. Teams Assessed	_____	_____
C. PQCI's Assessed	_____	_____
D. Passed Lots	_____	_____
E. Failed Lots	_____	_____
F. NIR's Issued	_____	_____

CIO MONTHLY TREND REPORT

II. TEAM ASSESSMENTS

<u>TEAM NO.</u>	<u>TOTAL CHECKLIST</u>		<u>REJECTED LOTS</u>		<u>TOTAL OBSERVATIONS</u>		<u>UNSAT OBSERVATIONS</u>		<u>NIR's</u>	
	<u>PERIOD</u>	<u>TOTAL</u>	<u>PERIOD</u>	<u>TOTAL</u>	<u>PERIOD</u>	<u>TOTAL</u>	<u>PERIOD</u>	<u>TOTAL</u>	<u>PERIOD</u>	<u>TOTAL</u>

CONCLUSIONS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



CIO MONTHLY TREND REPORT

III. PQCI ASSESSMENTS

<u>PQCI NO.</u>	<u>TITLE</u>	<u>TOTAL CHECKLISTS</u>		<u>REJECTED LOTS</u>		<u>TOTAL OBSERVATIONS</u>		<u>UNSAT OBSERVATIONS</u>		<u>NIR's</u>	
		<u>PERIOD</u>	<u>TOTAL</u>	<u>PERIOD</u>	<u>TOTAL</u>	<u>PERIOD</u>	<u>TOTAL</u>	<u>PERIOD</u>	<u>TOTAL</u>	<u>PERIOD</u>	<u>TOTAL</u>

CONCLUSIONS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



**STONE & WEBSTER MICHIGAN, INC.**

P.O. Box 2325, BOSTON, MASSACHUSETTS 02107

PRINCIPAL STAFF		
A	<i>1/10</i>	
D/EA		
D/VP		
PC		
PAO	508	
SGA	14	
EME	File	<i>1/13</i>

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

October 26, 1983  
J.O. No. 14509  
NRC File #83-10-26

RE: DOCKET NO. 50-329/330  
MIDLAND PLANT - UNITS 1 AND 2  
OVERVIEW OF THE CONSTRUCTION COMPLETION PROGRAM  
REPORT NO. 19

A copy of the Construction Implementation Overview Report No.19 for the period October 17, 1983 through October 21, 1983 is enclosed with this report. One Management Review Committee meeting was held during this reporting period.

Evaluations of CCP activities, as appropriate are attached. In addition, matrices of Open Items, Hold Points, and NIRs are attached.

Very truly yours,

S. W. Baranow  
Program Manager

SWB/ka

cc: JJHarrison, US NRC, Glen Ellyn, IL  
RCook, US NRC, Midland (Site)  
DLQuamme, CCo, Midland (Site)  
RBKelly, S&W  
APAmoruso, S&W

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Report No. 19

October 17, 1983 through October 21, 1983

Personnel on Site

Stone & Webster Michigan, Inc.

A. Amoroso	J. Chawla	J. Seely
S. Barancw	D. Cooke	W. Sienkiewicz
F. Bearham	J. Langston	A. Smith
J. Barr	T. Parker	J. Thompson
R. Carpeggiani	R. Scallan	C. Larsen (temporary)

Meetings Attended

<u>Date</u>	<u>Attendees</u>	<u>Purpose</u>
October 19, 1983	Consumers Power Company Management Review Committee Stone & Webster CIO Bechtel Power Company MPQAD	Readiness for Status Assessment
October 17, 1983 through October 21, 1983	Consumers Power Company Bechtel Power Company Stone & Webster CIO MPQAD	Daily Staff Management Meetings
October 17, 1983 and October 20, 1983	Consumers Power Company Bechtel Power Company Stone & Webster CIO MPQAD	Bi-Weekly Staff and Meetings with Team Supervisors
October 20, 1983	Consumers Power Company Bechtel Power Company Zack MPQAD Stone and Webster CIO	Welding Evaluation Program (HVAC Welds)
October 21, 1983	Consumers Power Company Bechtel Zack Stone & Webster CIO	Weekly Sub-Contractor Meeting
October 21, 1983	Consumers Power Company Bechtel MPQAD Stone and Webster CIO	Development of a Unified Commitment Tracking System

Meetings

October 19, 1983 - Management Review Committee Meeting. Agenda items discussed were:

- identification of civil commodities
- MPQAD inspection/construction interface
- CCP commitments and status based on the August 26, 1983 letter
- Raceway proposal status

CIO is providing details of agenda items under separate cover.

October 17, 1983 through October 21, 1983 - during this period, CIO attended daily staff management meetings and bi-weekly meetings with staff and team supervisors.

October 20, 1983-HVAC Welding Evaluation Program Meeting. Revision I of the Photon procedures were distributed to and reviewed by the attendees. Testing parameters, responsibilities and traceability of assigned project numbers to test pieces were discussed. There are approximately 90 welds which were removed from structural supports which were removed from structural supports which will be tensile tested at CPO (Jackson) Laboratory in Jackson, Michigan. CIO has been requested by CPO to provide surveillance inspection of this testing. To accomplish this task, CIO has developed attribute checklist MP-MIS-Z-039 "Program to Evaluate Past Welding to Photon Procedures:

Subjects discussed at the daily staff management meetings were:

- NCR Dispositions
- NCR Causes
- Delays in dispositioning/closing NCRs
- Audit Findings
- Starting Q work
- NRC Concerns
- Document Control
- Stop work orders
- Training Progress

- Progress with procedure issuance
- Major meetings
- Status of System 38
- Other administrative activities
- Manpower loading

Subjects discussed at the bi-weekly meetings with staff, team supervisors and support personnel were:

- Training
- Need for "Hands on" experience with procedures
- Staffing to support Module 340 activities
- Delays in document control drawing issue
- Other administrative activities such as overtime

October 21, 1983 - Weekly subcontract status meeting. Subjects discussed were:

Bechtel Power Company

- Number of NCRs related to Plant Unit 2 which are to be cleared before the end of 1983.
- Traveler status
- Status of Zacks weld tensile testing program
- Cause of increase of Field Change Requests (FCR)

Zack HVAC

- Piping System, 2QLC system
- Increase of NCRs related to installation drawings
- MB-FP-16 Training Procedure

Transco

- Backup data for restraints noted on punch lists
- Punch List for Plant Unit 2



JOB NO. 14509  
MIDLAND NUCLEAR POWER PLANT  
REPORT NO. 19  
PAGE 4

ACTIVITIES

Training Records

The CIO evaluation of sampling inspections performed on approximately 1993 individual training records has been completed and documented on Checklist No. MP-MIS-001E. Records of Teams 5,6,8,9,12,17,20,25,26, (27/28),29,30,31,(32/33 and the HBO Team 32/33 Staff were covered.

NIR.006 will be issued describing the discrepancies identified.

GENERAL

The US NRC, Consumers Power Company, and Stone and Webster met on October 13, 1983 to discuss CIO activities. The monthly meeting was open to the public. Minutes of the meeting have been sent to the Region III, NRC and Consumers Power Company.

STONE AND WEBSTER ENGINEERING CORPORATION  
NONCONFORMANCE IDENTIFICATION REPORT

QCI 15.01  
Attachment 4.1  
Revision 2

PAGE 1 OF 1

DATE OF NONCONFORMANCE: SEPTEMBER 27, 1983	NIR NUMBER 005	
<u>IDENTIFICATION/LOCATION OF ITEMS:</u>		
MPQAD - RECORDS FILE SECTION		
<u>DESCRIPTION OF NONCONFORMANCE:</u>		
A sample inspection of 6 of 45 MPQAD Personnel Training Records revealed that the Personnel Certification Form QA-116-1, Attachment D is not available in the record file as required by Procedure B-3M-1.		
<u>PERSONNEL</u>		
1) B. E. FREIMARK - 365-64-4818	4) D. W. GASKILL - 278-54-0575	
2) T. G. NELSON - 276-56-6857	5) B. D. HINES - 365-52-6895	
3) S. REVICH - 379-84-0876	6) J. R. ADOMOWSKI - 368-46-9164	
<u>Walter H. Sienkiewicz</u> INITIATOR	PROGRAM MGR <u>[Signature]</u>	
DATE <u>September 27, 1983</u>	DATE <u>October 3, 1983</u>	
<u>CORRECTIVE ACTION BY:</u>		
MPQAD		
IDENTIFY ORGANIZATION TAKING CORRECTIVE ACTION		
CIO has verified that the correct forms for Level II certification are on file for the 5 MPQAD personnel noted above. This NIR can be considered closed.		
VERIFICATION SAT <input checked="" type="checkbox"/> UNSAT <input type="checkbox"/> INITIATOR <u>Walter H. Sienkiewicz</u> DATE <u>10-20-83</u>	NEW NIR# N/A DATE	CONCURRENCE PROGRAM MGR <u>[Signature]</u> DATE <u>10/20/83</u>
<u>REMARKS</u>		

STONE & WEBSTER MICHIGAN, 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 us 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	QAR 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

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
030	Need to review Vendor Equipment Verification Program - MPQAD/SMO	Report No. 5 7/18/83		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 A8 - 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	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	
005	NIRs 002, 003, 004 and 005 issued as a result of sampling inspections of 45 MPQAD Training Records. Corrective action must be completed before any inspections can be performed by the 45 personnel in question.	Report No. 18 10/17/83		Open	
006	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.

P.O. Box 2325, BOSTON, MASSACHUSETTS 02107

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

October 17, 1983  
J.O. No. 14509  
NRC File #83-10-17

RE: DOCKET NO. 50-329/330  
MIDLAND PLANT - UNITS 1 AND 2  
OVERVIEW OF THE CONSTRUCTION COMPLETION PROGRAM  
REPORT NO. 18

A copy of the Construction Implementation Overview Report No. 18 for period October 10, 1983 through October 14, 1983 is enclosed with this report. There were no scheduled meetings during this reporting period. Evaluations of the CCP activities, as appropriate, are attached. Also, attached are matrix of open items and the NIR Log Summary.

Very truly yours,

S.W. Baranow  
Program Manager

Enclosure  
SWB/ka

cc: JHarrison, US NRC, Glen Ellyn, IL  
RCook, US NRC Midland (site)  
DBMiller Jr., CCo Midland (site)  
RBKelly, S&W  
APAmoruso, S&W  
CORichardson, S&W

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OCT 20 1983

Report No. 18

October 10, 1983 through October 14, 1983

Personnel on Site

Stone & Webster Michigan, Inc.

S. Baranow	T. Parker	J. Barr
J. Thompson	R. Carpeggiani	G. Foley
W. Sienkiewicz	A. Smith	P. Amoruso
J. Langston	D. Cooke	J. Chawla
R. Scallan	J. Seely	F. Bearham

Meetings

1. CIO attended the first of the monthly meetings with the US NRC and the public held in Midland on October 13, 1983. A separate report will be issued in accordance with the protocol agreement of September 15, 1983.
2. During the reporting period, CIO attended meetings conducted by Bechtel Power Company.
  - A. The daily staff management meetings are chaired by Mr. G. Hierzer, BPCo Site Manager and includes Management Representatives from all BPCo departments, CPCo and MPQAD.

Specific subjects discussed at the meetings were as follows:

- training and training records
- reducing attachments to drawings
- status of System 38
- NRC audit of Zack design
- complying with NRC requests for documentation and correspondence
- stop work by B&W (NSSS)
- fit-up inspections of welds

- B. The bi-weekly staff meetings are chaired by J. Reinsch and includes team leaders and support personnel from CPCo, BPCo and MPQAD.

Specific subjects addressed at the meetings included the following:

- area walkdown
  - evaluating training
  - reorganization of BPCo personnel
- C. CIO attended a second meeting to discuss a possible response to the NRC audit finding on fit-up inspection of Zack welding. The meeting included representatives of CPCo, BPCo and MPQAD and CIO as observers. Also, CIO agreed to implement a CPCo request to provide independent third party inspection of weld testing as part of the Weld Justification Program.
- D. CIO attended the Groups I and II System Review Meetings. At these meetings the emphasis is on resolving problems and providing solutions to restraints. Also, Bechtel Management reiterated their position that quality requirements have priority over cost and schedule requirements.
- E. CIO attended the Bechtel Subcontractors meeting. This meeting is attended by representatives from each of the Subcontractors and topics discussed include; Sampling Plans, Tests, NCRs, Training, Documentation and other items pertaining to construction.

#### ACTIVITIES

##### 1. Training

CIO attended and evaluated a construction training presentation on October 13, 1983.

##### Training Subject

- Technical Specification for Installation of Field Mounted Instrumentation for Nuclear and General Services (C368-83)

CIO evaluation of the presentation was considered to be satisfactory. The presentation was in compliance with FPG-2.000 "Training of Construction Personnel."

Results of the evaluation have been documented on Checklist MP-MIS-001E and are available for review.

## 2. Training Records

CIO has completed a sampling inspection of Construction Training Records of 32 members of 15 Teams assigned to perform status assessment.

Approximately 2,000 individual records were examined to determine if the requirements of FPG-2.000, "Training of Construction Personnel have been complied with."

An evaluation of unsatisfactory observations is underway to determine the degree of non-compliances. Report No. 19 will identify our findings and resolutions.

The results of the evaluation of each Team will be documented on Checklist No. MP-MIS-001E.

### HOLD POINTS

1. CPCo has committed to develop a Vendor Equipment Verification Program.

This program must be in place and reviewed by CIO prior to start of Phase II activities.

2. NIRs 002, 003, 004 and 005 issued as a result of sampling inspections of 45 MPQAD personnel Training Records require corrective actions and resolutions before any inspections can be performed by the above.

Initial responses to the NIRs has been received by CIO on October 13, 1983 and are currently under review.

### GENERAL

1. Report No. 11 stated that a CIO concern relative to welding criteria being duplicated in PQCI's was closed.

MPQAD has performed another review of their method of operation and have elected to change their policy regarding welding inspection.

MPQAD will revise CW-1.00 to incorporate all existing change notices and at the same time delete from it all references to electrical and instrument welding.

A new PQCI, EW-1.00, is being generated. This will cover the inspection of all welding on electrical supports and equipment. Inspection of welding will be deleted from the electrical PQCI's after EW-1.00 is effective.



JOB NO. 14509  
MIDLAND NUCLEAR POWER PLANT  
REPORT NO. 18  
PAGE 4

The inspection criteria for Instrument welding will remain in the Instrument PQCI's.

This item will not be stated in future reports. CIO will monitor progress on this item when preparing checklists based upon revised PQCI's.

2. Copies of new and revised Stone & Webster QCIs are attached for information;
  - QCI 2.01 Rev 0, 10/7/83, Orientation Requirements for CIO Personnel
  - QCI 7.01 Rev 0, 10/7/83, Sampling Inspection
  - QCI 10.01 Rev 2, 10/7/83, Construction Implementation Overview Assessment
  - QCI 15.01 Rev. 4, 10/7/83, Nonconformance Identification and Reporting

STONE & WEBSTER MICHIGAN, INC.  
MIDLAND NUCLEAR COGENERATION PLANT  
C10 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		Oper.	

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

NIR NO.	MPQAD NCR NO.	SUBJECT	DATE OF ISSUE	DATE DISP.	DATE CLOSED	REMARKS
001	N/A	Training Records	8/15/83	8/15/83	8/17/83	
002		Forms from both procedures B-3M and B-3M-1 are intermixed in training records	10/4/83			
003		Yearly vision examination was exceeded	10/4/83			
004		OJT training records not available in training records. Revision number not listed on OJf Record	10/4/83			
005		Personnel Certification Form QA-116-1, Attachment D is unavailable in record files	10/4/83			



STONE & WEBSTER MICHIGAN, INC.

P.O. Box 2325, BOSTON, MASSACHUSETTS 02107

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

October 11, 1983  
J.O. No. 14509  
NRC File #83-10-11

RE: DOCKET NO. 50-329/330  
MIDLAND PLANT - UNITS 1 AND 2  
OVERVIEW OF THE CONSTRUCTION COMPLETION PROGRAM  
REPORT NO. 17

A copy of the Construction Implementation Overview Report No. 17 for the October 3, 1983 through October 7, 1983 is enclosed with this report. There were no scheduled Management CCP meetings during this reporting period. Evaluations of CCP activities are attached.

Very truly yours,

S. W. Baranow  
Program Manager

Enclosure

SWB/ka

cc: JHarrison, US NRC, Glen Ellyn, IL  
RCook, US NRC Midland (site)  
DBMiller Jr., CPCo Midland (site)  
RBKelly, S&W  
APAmoruso, S&W  
CORichardson, S&W

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Report No. 17

October 3, 1983 through October 7, 1983

Personnel on Site

Stone & Webster Michigan, Inc.

S. Baranow	T. Parker	J. Barr
J. Thompson	R. Carpeggiani	G. Foley
W. Sienkiewicz	R. Corson	P. Amoruso
J. Langston	D. Cooke	J. Chawla
R. Scallan	J. Seely	

Meetings

During the reporting period, CIO attended meetings conducted by Bechtel Power Company.

1. The daily staff management meetings chaired by Mr. G. Hierzer, BPCo Site Manager and includes Management Representatives from all BPCo departments, CPCo and MPQAD.

Specific subjects discussed at the meetings were as follows:

- training and training records
  - reducing attachments to drawings
  - civil commodities
  - NCRs pertaining to drilling permits
  - stop work by B&W (NSSS)
2. The daily staff meetings are chaired by J. Reinsch and includes team leaders and support personnel from CPCo, BPCo and MPQAD.

Specific subjects addressed at the meetings included the following:

- area walkdown
- evaluating training
- reorganization of BPCo personnel



3. CIO attended a meeting to discuss a possible response to the NRC audit finding on fit-up inspection of Zack welding. The meeting included representatives of CPCo, BPCo and MPQAD and CIO as observers.
4. CIO attended a meeting to evaluate the preparedness of MPQAD and BPCo to proceed with status assessment.

The following subjects were discussed in depth:

- CIO and NRC restraints and Hold Points
- staffing
- scheduling and planning
- procedures and training
- evaluation of status assessment by BPCo Management

At the meeting it was decided that upon NRC approval of Status Assessment, BPCo plans to operate with 11 teams in module 340. These teams will perform status assessment in accordance with established procedures and their progress will be assessed by a BPCo task force.

When confidence is established and any necessary modifications to the program are made, teams will be introduced into additional areas.

CIO considers CCP and Status Assessment ready for immediate implementation with the following exception.

CIO has issued NIRs #002, 003, 004 and 005 referencing discrepancies in training records of 6 MPQAD out of 45 evaluated.

CIO considers that none of the 45 personnel should be assigned to any function associated with CCP.

CIO checklists reference NRC approved of training as a hold point. This approval was contained in NRC letter Docket #50-329 and 50-330 and removes the Hold Point. CIO will continue to monitor training activities and records and will report on confidence level.

#### ACTIVITIES

##### 1. Team Interfaces

The CIO inspectors assigned to teams are now taking an active part on the team. CIO members are attending some of the team training sessions as well as team staff meetings and team supervisors meetings. CIO has not yet assigned an inspector to Team 16 (Night Shift) as their current workload does not warrant it.

2. Training

CIO attend and or evaluated construction/craft training session on October 6, 1983.

Training subjects:

- Construction Completion Program Orientation
- Safety Tagging

CIO evaluation of the presentation was considered to be satisfactory and in compliance with FPG 2.000 "Training Of Construction Personnel."

3. Open Items

July 18, 1983, Report No. 5

(a) CPCo has committed to develop a vendor equipment verification program.

CIO has not been provided with the program or scheduled date of issue.

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
003	Need to review Vendor Equipment Verification Program - MPQAD/SMO	Report No. 5 7/18/83		Open	