

STONE & WEBSTER ENGINEERING CORPORATION
P. O. BOX 2325, BOSTON, MASSACHUSETTS 02107

DATE	12/2/83
J. O. NO.	14358
P. O. NO.	
LTR. NO.	
REF.	

VIA

DEAR SIRs:

THE FOLLOWING ARE ATTACHED: SENT SEPARATELY:

TO Mr. J.J. Harrison
U.S. Nuclear Regulatory Commission
799 Roosevelt Road
Glen Ellyn, IL 60137

<input checked="" type="checkbox"/> COPIES	<input type="checkbox"/> PRINTS	<input type="checkbox"/> REPRODUCIBLES	<input type="checkbox"/> MICROFILM APERTURE CARDS
EACH OF			
<input type="checkbox"/> DRAWINGS	<input type="checkbox"/> SPECIFICATIONS		
<input type="checkbox"/> DOCUMENTS	<input type="checkbox"/> NOTES OF CONFERENCE		

STATUS		PLEASE NOTE	SENT FOR YOUR		
<input type="checkbox"/> FINAL	<input type="checkbox"/> APPROVED	<input type="checkbox"/> REVISIONS	<input type="checkbox"/> OMISSIONS	<input type="checkbox"/> APPROVAL	<input type="checkbox"/> COMMENT
<input type="checkbox"/> PRELIMINARY	<input type="checkbox"/> APPROVED AS REVISED AS DEFINED IN SPECIFICATION	<input type="checkbox"/> ADDITIONS	<input type="checkbox"/> CORRECTIONS	<input type="checkbox"/> USE	<input checked="" type="checkbox"/> INFORMATION
<input type="checkbox"/> NO COMMENT	<input type="checkbox"/> UNACCEPTABLE	<input type="checkbox"/> COMMENTS	<input type="checkbox"/>	<input type="checkbox"/> FILES	<input type="checkbox"/> CONCURRENCE
<input type="checkbox"/> SUGGESTIONS AS NOTED	<input type="checkbox"/>			<input type="checkbox"/>	

YOUR ATTENTION IS DIRECTED TO THE FOLLOWING:

RELEASED FOR: FABRICATION PURCHASE OF NECESSARY MATERIALS

PLEASE REVISE AND SUBMIT _____ PRINTS _____ REPRODUCIBLES _____ MICROFILM APERTURE CARDS.

PLEASE SUBMIT _____ PRINTS _____ REPRODUCIBLES _____ MICROFILM APERTURE CARDS OF DOCUMENTS DRAWINGS SHOP DETAIL

PLEASE RETURN ONE COPY EACH OF THIS MATERIAL BEARING YOUR APPROVAL OR COMMENTS.

PLEASE ACKNOWLEDGE RECEIPT OF THIS MATERIAL BY SIGNING AND RETURNING THE ENCLOSED COPY OF THIS FORM.

WE TRUST THAT THESE NOTES ARE IN ACCORDANCE WITH YOUR UNDERSTANDING. IF NOT, PLEASE ADVISE US.

IMPORTANT SHOULD ANY REVISION TO DOCUMENTS OR DRAWINGS RETURNED HEREWITH INVOLVE A PRICE INCREASE, THE SUPPLIER MUST NOTIFY STONE & WEBSTER PURCHASING DEPARTMENT WITHIN TEN (10) DAYS EVEN THOUGH A DEFINITE ESTIMATE CANNOT BE GIVEN AT THE TIME. OTHERWISE, THE PURCHASER WILL CONSIDER THE REVISIONS MADE WITHOUT COST.

DOCKET NO. 50-329/330
MIDLAND PLANT - UNITS 1 AND 2
INDEPENDENT ASSESSMENT OF UNDERPINNING
AND REMEDIAL SOILS

A copy of the attached correspondence is being sent to your in accordance with the Protocol governing communications between Stone & Webster Michigan, Inc. and Consumers Power Company.

ASL

A.S. Lucks
Project Manager

Enclosure

ASL/mmm

DEC 8 1983

8406120293 840517
PDR FOIA
RICEB4-96 PDR

DATA
COPY

STONE & WEBSTER ENGINEERING CORPORATION

Copy to:

✓ JHarrison/NRC

WEKilker
General Files
MMiles/Job Book
ASLucks

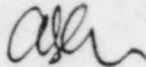
Mr. J. A. Mooney
Consumers Power Company
1945 West Parnall Road
Jackson, MI 49201

December 2, 1983

J.O.No. 14358
MPS-35

MIDLAND PLANT - UNITS 1 AND 2
INDEPENDENT ASSESSMENT OF UNDERPINNING
PROJECT MANUAL REVISIONS

Enclosed with this letter is a set of revised Project Procedures for the Midland Project Manual. Instructions for revising your copy of the manual are given in the memorandum attached to the revised Project Procedures.



A.S. Lucks
Project Manager

Enclosures

ASL/mm



**Consumers
Power
Company**

Midland Project: PO Box 1963, Midland, MI 48640 • (517) 631-8650

December 2, 1983

Mr Stan Baranow
Stone and Webster
Midland Nuclear Plant Project
Trailer 186
3500 E Miller Road
Midland, MI 48640

MIDLAND ENERGY CENTER PROJECT - DOCUMENT DISTRIBUTION MATRIX

MPQAD maintains a Document Distribution Matrix as an aid to assure individuals receive copies of selected MPQAD originated documents, as appropriate. Attached is an excerpt from the matrix showing the present distribution of documents to you. The excerpt also shows MPQAD's proposed distribution to you.

MPQAD is trying to assure that you receive the documents you need while also trying to reduce the distribution of documents. Please review MPQAD's proposal versus the present distribution. Please return the excerpt by December 9, 1983 indicating any changes you feel are necessary, or if MPQAD's proposal is acceptable.

Gary F Ewert, Division Head
Quality Services
Midland Project QA Department

GFE/kw

Attachment

CC JRKepler, NRC Region III Administrator
DLQuamne, SMO
RAWells, MPQAD

Sent to DMIB 12/7/83

PRINCIPAL STAFF	
<i>✓</i> D/RA	DFRP
A/RA	DE
PC	DRMSP
PAO	DRWA
SA	SCS <i>✓</i>
ENF	ML
	File

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STONE & WEBSTER

POSITION

PRESENT DISTRIBUTION

PROPOSED DISTRIBUTION

SUGGESTED CHANGES/COMMENTS

MPQAD ORIGINATED DOCUMENTS

MONTHLY ACTIVITIES REPORT

AUDIT REPORTS & FINDINGS

X

NONCONFORMANCE REPORTS

MCARRs CPCo

QUALITY ACTION REQUESTS (QARs)

SCREs

TREND REPORT MONTHLY

CONDITIONAL RELEASE

STOP WORK ORDER

X

QUALITY ACTION ITEM LIST

MPQAD DOCUMENT DISTRIBUTION LEGEND

- (B) - BECHTEL
- O - ORIGINATOR
- X - MANDATORY RECIPIENT
- a - RECIPIENT AS APPLICABLE TO SCOPE OF WORK DETERMINED BY ORIGINATOR OF DOCUMENT



CONSUMERS
POWER
Company

Midland Project: PO Box 1963, Midland, MI 48640 • (517) 631-8650

December 1, 1983

Mr Stan Baranow
Stone and Webster
Midland Nuclear Plant Project
Trailer 186
3500 E Miller Road
Midland, MI 48640

MIDLAND ENERGY CENTER PROJECT -
TRANSMITTAL OF PQCI's
FILE 24.2 SERIAL 26375

This will confirm the transmittal of reference copies of the following document to Stone and Webster, as listed below:

MPQAD Manual
F-2M

J. A. Pucci/mzw

G F Ewert, Division Head
Quality Services
Midland Project Quality Assurance

GFE/JAP/kam

CC JRKeppler, NRC Region III Administrator
DLQuamme, SMO
RAWells, MPQAD

PK
WR

PRINCIPAL STAFF	
<input checked="" type="checkbox"/> JAP	PPRP
<input type="checkbox"/> D/RA	DE
<input type="checkbox"/> A/RA	DRMSP
<input checked="" type="checkbox"/> RC	DRMA
<input type="checkbox"/> AO	SCS <i>orig + 3</i>
<input type="checkbox"/> TA	ML
<input type="checkbox"/> E	File <i>da</i>

8401034134



**Consumers
Power
Company**

Midland Project: PO Box 1963, Midland, MI 48640 • (517) 631-8650

November 30, 1983

Handwritten initials

PRINCIPAL STAFF			
<i>✓</i> RA	<i>has</i>	DRRP	
D/RA		DE	
A/RA		DRMSF	
<i>✓</i> RC	<i>has</i>	DRMA	
PAO		SCS	<i>orig+3</i>
SGA		ML	
ENF		File	<i>has</i>

Mr Stan Baranow
Stone and Webster
Midland Nuclear Plant Project
Trailer 186
3500 E Miller Road
Midland, MI 48640

MIDLAND ENERGY CENTER PROJECT -
TRANSMITTAL OF PQCI
FILE 24.2 SERIAL 26374

This will confirm the transmittal of controlled copies of PQCI and/or changes and Procedures to Stone and Webster, as listed below:

C-1.31 Rev 6
Control Log for week ending November 18, 1983

J. A. Pucci/lav

G F Ewert, Division Head
Quality Services
Midland Project Quality Assurance

GFE/JAP/ehe

CC JRKepler, NRC Region III Administrator
DLQuamme, SMO
RAWells, MPQAD

CC0983-0001A-QL05

~~8101050369~~



STONE & WEBSTER MICHIGAN, INC

P.O. BOX 2325, BOSTON, MASSACHUSETTS 02107

sent to D1113 12/2/83

PRINCIPAL STAFF	
<i>Law</i>	SPRP
J/RA	DE
A/RA	DP/SP
RC	DATA
PAO	SCS
SGA	IL
ETP	File

orig. 3

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

As requested by the office of Mr. J. J. Harrison US NRC on November 28, 1983, attached are 2 copies each of the Stone & Webster Project Quality Assurance Plan Rev. 2 dated October 25, 1983.

Very truly yours,

S. W. Baranow
Program Manager

SWB/ka

cc: JHarrison, US NRC, Glen Ellyn, IL w/a

attachments

DEC -2 1983

83-2060368

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

PROJECT QUALITY ASSURANCE PLAN

Approvals:

John Cannon
Program Manager

Chris Dutton for
Chief Engineer
Engineering Assurance

Richard B Kelly
Manager
Quality Assurance

Dates:

October 25, 1983

October 20, 1983

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.

2

83-2066370

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 turn-over 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.

K 2

THIRD PARTY CONSTRUCTION IMPLEMENTATION OVERVIEW

Approval:

Richard Kelly Date 10/26/83
Manager Quality Assurance

Subramanian Date 10/21/83
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 CCF 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.



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
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>				

ONE AND WEBSTER ENGINEERING CORPORATION
MIDLAND NONCONFORMANCE IDENTIFICATION REPORT

DATE OF NONCONFORMANCE: November 22, 1983 NIR Number 19

IDENTIFICATION/LOCATION OF ITEMS: MPQAD review of crack monitoring for the Auxiliary Building, the Freshwater Isolation Valve Pits and the Service Water Pump Structure.

DESCRIPTION OF NONCONFORMANCE: MPQAD has demonstrated a consistent lack of attention concerning crack mapping. This is evident since no QA overview has been performed in accordance with their PIPR's, and their IR's are incomplete and not current. MPQAD should review their overall performance concerning those items as applied to crack mapping.

REMARKS: _____

INITIATOR: <i>John E. Spring</i>	DATE: <u>11-22-83</u>	PROJECT MANAGER: <i>L.T. Rowler</i> <i>for A.S. Lucks</i>
----------------------------------	-----------------------	--

CORRECTIVE ACTION BY: _____
(IDENTIFY ORGANIZATION TAKING CORRECTIVE ACTION)

INITIATOR:	PROJECT MANAGER :	DATE:
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sent to DIMB 11/28/83



Consumers
Power
Company

Midland Project: PO Box 1963, Midland, MI 48640 • (517) 631-8650

LAB 120-83

November 21, 1983

Mr Stan Baranow
Stone & Webster Engineering
Midland Nuclear Plant Project
Trailer 186
3500 E Miller Road
Midland, MI 48640

MIDLAND ENERGY CENTER PROJECT -
TRANSMITTAL OF (3) COMPUTER PRINTS

This will confirm the transmittal of three computer printouts containing information on MPQAD (BOP) Inspector records. These prints cover all training, exams, performance demos, certifications, etc.

GFEwert/LABotimer

A handwritten signature in cursive script, appearing to read 'L. Botimer'.

cc: JHarrison, NRC
DLQuamme, Site Mgr
RAWells

NOV 28 1983

sent to P1113 12/1/83



Consumers
Power
Company

Midland Project: PO Box 1963, Midland, MI 48640 • (517) 631-8660

PRINCIPAL STAFF			
✓ RA	Lo	DRRP	
D/RA		DE	
A/RA	Lo	DRMSP	
✓ RC	Lo	DRMA	
PAO		SCS	✓
SGA		ML	
ENF		File	Lo

orig + 3

November 21, 1983

Mr Stan Baranow
Stone and Webster
Midland Nuclear Plant Project
Trailer 186
3500 E Miller Road
Midland, MI 48640

MIDLAND ENERGY CENTER PROJECT-
TRANSMITTAL OF QUALITY CONTROL NOTICES MANUAL
FILE 24.2 SERIAL 26361

Transmitted herewith are controlled copies 1480 and 1485 of the Quality Control Notices Manual. They are being provided as requested. Please sign and return the transmittal/acknowledgement sheets. Future updates to the manual will be provided by routine transmittal rather than letter.

Gary F Ewert, Division Head
Quality Services
Midland Project QA Department

GFE/pmk

CC BMMerchand
RJOberle
JRKeppler
DLQuamme
RAWells

8312060200

DEC 1 1983



**Consumers
Power
Company**

Midland Project: PO Box 1963, Midland, MI 48640 • (517) 631-8860

November 21, 1983

sent to TMB 12/1/83

PRINCIPAL STAFF		
✓ RA	<i>DR</i>	DPRP
D/RA		DE
A/RA		DRMSP
✓ RC	<i>DR</i>	DRMA
FAO		SCS ✓
SGA		ML
ENF		File <i>DR</i>

orig + 3

S W Baranow, Program Manager
Stone and Webster Michigan Inc
PO Box 1963
Midland, MI 48640

MIDLAND ENERGY CENTER PROJECT - STONE AND WEBSTER NIRs 002 THROUGH 004
FILE 24.2 SERIAL 26363

MPQAD QARs ET0005, RT0006, and RT0007 written in response to Stone and Webster NIRs 002, 003 and 004 have been closed by MPQAD. Copies are attached for your information. The deficiencies identified in the QARs have been corrected, or accepted as is. Accordingly, Stone and Webster is requested to verify the actions taken for the 45 inspectors covered by the QARs, for closure of the NIRs.

The broad scope review required by QAR RT00010 is ongoing, we will advise you when action as a result of it is complete.

Gary F Ewert

Gary F Ewert, Division Head
Quality Services
Midland Project QA Department

GFE/kw

CC JRKepler
DLQuamme
RAWells

8312060197

DEC 1 1983

MIDLAND PROJECT QUALITY ASSURANCE DEPARTMENT			QUALITY ACTION REQUEST			6. QAR NO: RT 00005
NIR 002			7. DATE ISSUED: 10/12/83			8 REV: 0
1. REQUIREMENT: Vision Exam Records Performance Demonstration Records Personnel Certifications Qualification Questionnaires			} Forms shown in B-3M-1 to have been used			9. PAGE <u>1</u> OF <u>2</u>
2. DEFICIENCY: 1) Forms shown in B-3M were used in some cases. 2) On some certification forms, the revision number of the PQCI to which the individual was certified was not shown. These deficiencies were identified on Stone and Webster NIR 002.						10. ASME RELATED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
3. QAR ORIGINATED BY: D M Turnbull		4. DISCIPLINE/DIVISION/SECTION A & T	5. RESPONSE DUE DATE N/A	11. POTENTIAL 50.55(e) YES <input type="checkbox"/> NO <input type="checkbox"/>		
13. ACTION ITEM NO: SO3485	15. ITEM PRIORITY: 3	17. S/U CODE: PGM00	19. ACTION ORGANIZATION Qual. & Cert. Records Group Plant Assurance Engineering Branch		20. QAR REVIEWED BY: <i>[Signature]</i> 21. DATE: 10/12/83	
14. DISCIPLINE: A & T	16. TREND CODE: I-5	18. RESB CODE: A & T	22. CAUSE: The old forms were not recalled when the new forms came into effect.		23. PROPOSED CORRECTIVE ACTION: 1) The correct forms will be distributed to all Level III personnel, with instruction to destroy stocks of forms now on hand by 10/17/83. (L A Botimer) 2) Comparison of the old with the new forms (continued on page 2 of 2)	
24. RESPONSIBLE ORGANIZATION/PERSON: L A Botimer, Qual. & Cert. Records G E Parker, Plant Assurance Eng. Branch			25. PROPOSED COMPLETION DATE November 4, 1983			
26. DISPOSITION CONCURRENCE: <div style="display: flex; justify-content: space-between;"> <div style="text-align: center;"> <i>[Signature]</i> QAR REVIEWER 10/12/83 DATE </div> <div style="text-align: center;"> N/A PQAE (ASME ONLY) 10/12/83 DATE </div> </div>						
27. DISPOSITION ACTION TAKEN: 1. The correct forms were distributed. 4. All 45 folders have been reviewed and all now show the revision number of the PQCI to which the individual was certified.						
28. METHOD OF DISPOSITION VERIFICATION 1. Examined supplies of blank forms in Inspection Evaluation, Mechanical QA, Mechanical, Electrical and Civil QC and Welding/NDE QA and verified that old forms had been thrown out. 4. The Q&C folders have been reviewed and it was verified that corrections were made correctly.				29. QAR CLOSED BY <i>[Signature]</i> MPQAE 11/21/83 DATE N/A PFQCE (ASME ONLY) DATE		
ACCEPTABLE <input checked="" type="checkbox"/> UNACCEPTABLE <input type="checkbox"/> SUPERCEDING QAR _____						

QUALITY ACTION REQUEST
CONTINUATION SHEET

RT 00005

DATE:

10/12/83

REV:

0

PAGE 2 OF 2

indicates that with one exception the use of the incorrect form cannot have resulted in any lack of information or incorrect approvals. Therefore the incorrect forms will be allowed to remain in the files.

3) The one exception, which does not apply to the electrical inspectors included in this QAR, is the Personnel Certification Form, where QA-37-0 does not require the approval of the PQAE for ASME-related PQCI's, while QA-37-1 does require it. This problem will be addressed in QAR RT 00010.

4) All currently valid certifications in the population of 45 will also be reviewed to identify those on which the revision level of the PQCI was omitted. The revision level will be added and the forms will be reapproved by a Level III person. (L A Botimer and G E Parker)

7. DATE ISSUED: 10/12/83 8 REV: -0-
 9. PAGE 1 OF 2
 10. ASME RELATED
 YES NO

1. REQUIREMENT:
 Procedure B-3M-1, Section 5.10.1 requires that each certified individual pass an annual vision examination.

2. DEFICIENCY:
 One individual was found to have had his vision examination conducted nine days after the expiration of his previous annual examination.
 This deficiency was identified on Stone and Webster NIR 003.

11. POTENTIAL \$0.55(e)
 YES NO
 12. REPORTED TO MPOA MANAGER: DATE N/A

3. QAR ORIGINATED BY: D M Turnbull
 4. DISCIPLINE/DIVISION/SECTION: A&T
 5. RESPONSE DUE DATE: N/A

13. ACTION ITEM NO: S03486
 14. DISCIPLINE: A&T
 15. ITEM PRIORITY: 3
 16. TREND CODE: I-5
 17. S/U CODE: PGM00
 18. RESB CODE: A&T
 19. ACTION ORGANIZATION: Q&C Records Group, Program Development Group, Special Projects

20. QAR REVIEWED BY: *JF Ewert*
 21. DATE: 10/12/83

22. CAUSE:
 Unknown.

23. PROPOSED CORRECTIVE ACTION:
 1) This individual's supervisor has written a memo to be put in the training folder, saying the 3/18/83 examination is satisfactory evidence that the individual's visual acuity was acceptable during the 9 day period by which the examination was overdue. Completed 10/11/83.
 (Continued on page 2 of 2)

24. RESPONSIBLE ORGANIZATION/PERSON:
 L A Botimer, Q&C Records
 D M Turnbull, Special Projects
 R J Oberle, Program Development

25. PROPOSED COMPLETION DATE: November 4, 1983

26. DISPOSITION CONCURRENCE:
JF Ewert 10-13-83 QAR REVIEWER DATE
 N/A *JFE* 10-11-83 PQA (ASME ONLY) DATE

27. DISPOSITION ACTION TAKEN:
 1. As proposed in Block 23
 2. As proposed on Page 2

28. METHOD OF DISPOSITION VERIFICATION:
 1. Verified the presence of the memo in the folder.
 2. The Q&C folders have been reviewed and it was verified that all lapses in vision examinations had been identified and that justification for the lapsed period has been documented.

29. QAR CLOSED BY: *JF Ewert* 11/21/83 MPOAD DATE
 N/A PFOCE (ASME ONLY) DATE

ACCEPTABLE UNACCEPTABLE SUPERCEDING QAR _____

QUALITY ACTION REQUEST
CONTINUATION SHEET

RT 00006

DATE:

10/12/83

REV:

0-1

PAGE 2 OF 2



2) All qualification folders in the population of 45 will be reviewed to identify similar lapses. Each case identified will be dispositioned by the appropriate supervisor and documentation to this effect will be put in the files. (L A Botimer)

3) Corrective action to prevent recurrence will be taken in accordance with QAR RT 00010.

MIDLAND PROJECT
 QUALITY ASSURANCE DEPARTMENT QUALITY ACTION REQUEST

RT 00007
 7. DATE ISSUED: 10/12/83 11/16/83 8 REV: 0-1

1. REQUIREMENT:
 B-3M-1, DR 141, Section 5.6.3 requires that OJT be documented.

9. PAGE 1 OF 2-3
 10. ASME RELATED *JFE 11/16/83*
 YES NO

2. DEFICIENCY:
 In a sample of 6 training folders, two lacked documentation on OJT or the lack of need for it. Two lacked a revision number on the PQCI on which OJT was given. One lacked a title for the PQCI on which OJT was given. These deficiencies were identified on Stone and Webster NIR 004.

11. POTENTIAL 50.55(e)
 YES NO

3. QAR ORIGINATED BY: D M Turnbull
 4. DISCIPLINE/DIVISION/SECTION: A&T
 5. RESPONSE DUE DATE: N/A
 12. REPORTED TO KPQA MANAGER: DATE N/A

3. ACTION ITEM NO: SO3487
 15. ITEM PRIORITY: 3
 17. S/U CODE: PGM00
 19. ACTION ORGANIZATION: MPQAD QC
 20. QAR REVIEWED BY: *JFE*
 14. DISCIPLINE: A&T
 16. TREND CODE: I-5
 18. RESB CODE: A&T
 21. DATE: 10/12/83

22. CAUSE:
 Personnel failed to follow the steps necessary to ensure that records reached the files.

23. PROPOSED CORRECTIVE ACTION:
 1) It has been established that the two persons whose folders lacked documentation on OJT had received such training and that documentation existed at one time. However, it was evidently not turned in to Q&C Records. If the search for this documentation proves fruitless, a memorandum will be prepared by the certifying agency (Continued on page 2)

24. RESPONSIBLE ORGANIZATION/PERSON:
 MPQAD QC - E L Jones
 Q&C Records - L A Botimer
 Program Development - R J Oberle

25. PROPOSED COMPLETION DATE: November 4, 1983

26. DISPOSITION CONCURRENCE:
JFE 10/13/83 QAR REVIEWER DATE
 N/A *JFE* 10/13/83 PQAE (ASME ONLY) DATE

27. DISPOSITION ACTION TAKEN:
 1. The two folders identified in the audit now contain a memorandum from the Level III stating that OJT was given.
 3. DR #161 issued 11/18/83, effective 12/5/83 changes section 5.6.3 of B-3M-1 to require documentation of the decision that OJT is not required.
 4. The checklist now in use by Q&C Records personnel requires that they check OJT Records for the presence of the titles and revision numbers of PQCIs on which training was given.

28. METHOD OF DISPOSITION VERIFICATION
 All items mentioned in block 27 have been verified, by review of all 45 folders.

29. QAR CLOSED BY
JFE 11/21/83 MPQAC DATE
 N/A PFQCE (ASME ONLY) DATE

ACCEPTABLE UNACCEPTABLE SUPERCEDING QAR _____

QUALITY ACTION REQUEST
CONTINUATION SHEET

QAR NO:

RT 00007

DATE:

10/12/83 11/16/83

REV:

-0 1

PAGE 2 OF 23



AF 11/16/83

saying that the lack of an OJT record does not invalidate the individual's certification

because the presence of a Performance Demonstration record confirms the fact that the

individual has the required ability. (ELJones)

2) Q&C Record folders in the population of 45 will be reviewed to identify any other cases

of missing OJT records, or missing titles or revision numbers. -- Such omissions will be

rectified by the certifying agency. -- (LABotimer)

SEE PAGE 3



AF 11/16/83

3) MPQAD Procedures will be revised to require documentation of any decision that OJT is

not required. (RJOberle)

4) Checklists are being developed for Q&C Records personnel which will remind them to

return, for correction, any records which do not show revision numbers or titles

for PQCI's. (LABotimer)

QUALITY ACTION REQUEST
CONTINUATION SHEET

RT 00007

DATE:

11/16/83

REV:

1

PAGE 3 OF 3

1

AK 11/16/83

2) Since MPQAD procedures did not require that the need or lack of need to perform OJT be documented, it cannot be established if OJT records from other folders are missing. The lack of an OJT record in an individual's file does not invalidate the individual's certification because the presence of a successful Performance Demonstration Record in the file confirms that the individual has the required ability. A request will be made of appropriate personnel to search for and submit any OJT records they may have.



STONE & WEBSTER MICHIGAN, INC.

P.O. Box 2325, BOSTON, MASSACHUSETTS 02107

PRINCIPAL STAFF			
RA	<i>See</i>		
D/RA		DE	
A/RA		DE	
RC		DE	
PAO		DE	<i>Verdict</i>
SGA		HL	
ENF		File	<i>See</i>

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

November 17, 1983
 J.O. No. 14509
 NRC File #83-11-17

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

Attached is a corrected version of Hold Point Number 011 reported in our weekly report dated November 14, 1983.

Hold Point Number 011 has been established by CIO at the end of Phase II activities of the FCR/FCN Review and Resolution Program to evaluate the adequacy of MPQAD performance during Phase I and Phase II activities.

Very truly yours,

S. W. Baranow

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

8401100246

NOV 21 1983

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
011	Prior to the 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.				



sent to DMB 11/28/83 ~~Q.F.H.~~
Q.F.H.



Consumers
Power
Company

Midland Project: PO Box 1963, Midland, MI 48640 • (517) 631-8650

November 16, 1983

PRINCIPAL STAFF		
RA	<i>has</i>	DPRP
D/RA		DE
A/RA		DRMSP
RC	<i>has</i>	DRMA
PAO		SCS <input checked="" type="checkbox"/>
SGA		ML
ENF		File <i>ls</i>

orig + 3

Mr Stan Baranow
Stone and Webster
Midland Nuclear Plant Project
Trailer 186
3500 E Miller Road
Midland, MI 48640

MIDLAND ENERGY CENTER PROJECT -
TRANSMITTAL OF QAR
FILE 24.2 SERIAL 26349

Please find attached a copy of QAR RT 00007 Rev 1 issued today. It is in response to your NIR 004.

Gary F Ewert, Division Head
Quality Services
Midland Project QA Department

GFE/kw

CC JRKepler, NRC Region III Administrator
DLQuamme, SMO
RAWells, MPQAD

~~8312010191~~

NOV 25 1983

NIR 004
 1. REQUIREMENT:
 B-3M-1, DR 141, Section 5.6.3 requires that OJT be documented.

7. DATE ISSUED: 10/12/83 11/16/83
 8 REV: 0-1
 9. PAGE 1 OF 2-3
 10. ASME RELATED
 YES NO

2. DEFICIENCY:
 In a sample of 6 training folders, two lacked documentation on OJT or the lack of need for it. Two lacked a revision number on the PQCI on which OJT was given. One lacked a title for the PQCI on which OJT was given. These deficiencies were identified on Stone and Webster NIR 004.

11. POTENTIAL 50.55(e)
 YES NO

3. QAR ORIGINATED BY: D M Turnbull
 4. DISCIPLINE/DIVISION/SECTION: A&T
 5. RESPONSE DUE DATE: N/A
 12. REPORTED TO MPQA MANAGER: DATE N/A

3. ACTION ITEM NO: SO3487
 15. ITEM PRIORITY: 3
 17. S/U CODE: PGM00
 19. ACTION ORGANIZATION: MPQAD QC
 20. QAR REVIEWED BY: *JF Ewert*
 4. DISCIPLINE: A&T
 16. TREND CODE: I-5
 18. RESB CODE: A&T
 Q&C Records
 Program Development
 21. DATE: 10/12/83

22. CAUSE:
 Personnel failed to follow the steps necessary to ensure that records reached the files.
 23. PROPOSED CORRECTIVE ACTION:
 1) It has been established that the two person whose folders lacked documentation on OJT had received such training and that documentation existed at one time. However, it was evidently not turned in to Q&C Records. If the search for this documentation proves fruitless, a memorandum will be prepared by the certifying agency (Continued on page 2)

24. RESPONSIBLE ORGANIZATION/PERSON:
 MPQAD QC - E L Jones
 Q&C Records - L A Botimer
 Program Development - R J Oberle
 25. PROPOSED COMPLETION DATE: November 4, 1983

26. DISPOSITION CONCURRENCE:
JF Ewert 10/13/83
 QAR REVIEWER DATE
 N/A *A/E* 10/13/83
 PQAE (ASME ONLY) DATE

27. DISPOSITION ACTION TAKEN:

28. METHOD OF DISPOSITION VERIFICATION
 29. QAR CLOSED BY
 _____ MPQAD _____ DATE
 _____ PFQCE (ASME ONLY) _____ DATE

ACCEPTABLE UNACCEPTABLE SUPERCEDING QAR _____

QUALITY ACTION REQUEST
CONTINUATION SHEET

KI 0000/	
DATE:	REV:
10/12/83 11/16/83	-0 1
PAGE 2 OF 2 3	△

11/16/83

saying that the lack of an OJT record does not invalidate the individual's certification because the presence of a Performance Demonstration record confirms the fact that the individual has the required ability. (ELJones)

2) ~~Q&C Record folders in the population of 45 will be reviewed to identify any other cases of missing OJT records, or missing titles or revision numbers. Such omissions will be rectified by the certifying agency. (LABotimer)~~ SEE PAGE 3

△
11/16/83

3) MPQAD Procedures will be revised to require documentation of any decision that OJT is not required. (RJobe/le)

4) Checklists are being developed for Q&C Records personnel which will remind them to return, for correction, any records which do not show revision numbers or titles for PQCI's. (LABotimer)

QUALITY ACTION REQUEST
CONTINUATION SHEET

DATE:	11/16/83	REV:	1
PAGE <u>3</u> OF <u>3</u>		1	

APC 11/16/83

2) Since MPQAD procedures did not require that the need or lack of need to perform

OJT be documented, it cannot be established if OJT records from other folders

are missing. The lack of an OJT record in an individual's file does not invali-

date the individual's certification because the presence of a successful Perform-

ance Demonstration Record in the file confirms that the individual has the required

ability. A request will be made of appropriate personnel to search for and submit

any OJT records they may have.

sent to DMB 11/23/83



Consumers
Power
Company

Midland Project: PO Box 1963, Midland, MI 48640 • (517) 631-8650

November 15, 1983

LAB 117-83

Mr Stan Baranow
Stone & Webster Engineering
Midland Nuclear Plant Project
Trailer 186
3500 E Miller Road
Midland, MI 48640

MIDLAND ENERGY CENTER PROJECT -
TRANSMITTAL OF (3) COMPUTER PRINTS

This will confirm the transmittal of three computer printouts containing information on MPQAD (BOP) Inspector records. These prints cover all training, exams, performance demos, certifications, etc.

GFEwert/LABotimer

A handwritten signature in cursive script, appearing to read 'L. Botimer'.

cc: JHarrison, NRC
DLQuamme, Site Mgr
RAWells

~~8311290194~~



Consumers
Power
Company

Midland Project: PO Box 1963, Midland, MI 48640 • (517) 631-8650

*sent to DMBB
11/23/83*

November 15, 1983

Mr Stan Baranow
Stone and Webster
Midland Nuclear Plant Project
Trailer 186
3500 E. Miller Road
Midland, MI 48640

MIDLAND ENERGY CENTER PROJECT -
TRANSMITTAL OF NCR
FILE 24.2 SERIAL 26420

This will confirm the transmittal of reference copy of NCR M01-5-3-223 to Stone and Webster.

J. Lucci / jak

GFEwert, Division Head
Quality Services
Midland Project Quality Assurance Department

GFE/JAP/jak

cc: JRKepler, NRC Region III Administrator
DLQuamme, SMO
RAWells, MPQAD

sent to TMB 11/14/83



**Consumers
Power
Company**

Midland Project: PO Box 1963, Midland, MI 48640 • (517) 631-8650

November 9, 1983

Mr Stan Baranow
Program Manager CIO
Stone and Webster
Midland Energy Center
PO Box 1963
Midland, MI 48640

SUBJECT: MIDLAND ENERGY CENTER - REQUESTED DOCUMENTS
FILE: 24.2 SERIAL: 19856

This is to confirm discussions between T W Tate of MPQAD-HVACA and R Scallon of Stone and Webster on requesting the following documents:

- FCR C-5311
- FCR M-7010
- FCR C-1740
- Stop Work Order FSW-33
- FCR/FCN Attachment Control Phase I Training

A copy of the above is attached for your use.

[Signature]
 H Leonard, General Superintendent
 Plant Assurance Division
 Midland Project Quality Assurance Dept

[Signature]
 J Wood
 Assistant Superintendent
 MPQAD-HVACA

HPL/JLW/cn

cc: DLQuamme, Midland (w/o att)
RAWells, MPQAD (w/o att)



8311170145



**Consumers
Power
Company**

Midland Project: PO Box 1963, Midland, MI 48647 • (517) 631-8650

November 9, 1983

Mr Stan Baranow
Stone and Webster
Midland Nuclear Plant Project
Trailer 186
3500 E Miller Road
Midland, MI 48640

MIDLAND ENERGY CENTER PROJECT -
TRANSMITTAL OF PQCI's
FILE 24.2 SERIAL 26340

This will confirm the transmittal of controlled copies of PQCI and/or changes to Stone and Webster, as listed below:

P-2.10 Rev 13 CN #AA00102
Control Log for week ending November 4, 1983
PQCI Configuration Study
P-1.00 Rev 7 CN #AA-00118

J.A. Pucci / lae

G F Ewert, Division Head
Quality Services
Midland Project Quality Assurance

GFE/JAP/gld

CC JRKepler, NRC Region III Administrator
DLQuamme, SMO
RAWells, MPQAD

*sent to DMP
11/21/83 JKC B*

PRINCIPAL STAFF	
<input checked="" type="checkbox"/> J.A. Pucci	
D/RA	DE
S/RA	DP/SP
PC	DRMA
BAO	SCS
SGA	ML
ENF	File <i>lae</i>

orig + 3

NOV 21 1983

OC0983-0001A-QL05

8311280453

sent to DMB 11/14/83



Consumers
Power
Company

Midland Project: PO Box 1963, Midland, MI 48640 • (517) 631-8650

November 7, 1983

LAB 104-83

Mr Stan Baranow
Stone & Webster Engineering
Midland Nuclear Plant Project
Trailer 186
3500 E Miller Road
Midland, MI 48640

MIDLAND ENERGY CENTER PROJECT -
TRANSMITTAL OF (3) COMPUTER PRINTS

This will confirm the transmittal of three computer printouts containing information on MPQAD (BCP) Inspector records. These prints cover all training, exams, performance demos, certifications, etc.

GFEwert/LABotimer

cc: JHarrison, NRC
DEMiller, Site Mgr
RAWells

~~831170238~~



Consumers
Power
Company

Midland Project: PO Box 1963, Midland, MI 48640 • (517) 631-8650
November 4, 1983

Mr Stan Baranow
Stone and Webster
Midland Nuclear Plant Project
Trailer 186
3500 E. Miller Road
Midland, MI 48640

MIDLAND ENERGY CENTER PROJECT -
TRANSMITTAL OF DOCUMENTS
FILE 24.2 SERIAL 26333

This will confirm the transmittal of reference copies of the following documents to Stone and Webster, as listed below:

Bechtel Field Procedures

1. FPD-1.000
2. FPD-2.000
3. FID-2.100
4. FPG-1.000
5. FIG-1.001
6. FIG-3.200

Bechtel Engineering Procedures

1. EDP-2.13 and MED-2.13-0
2. PEP-4.1.1
3. EDP-4.25 and MED 4.25-0
4. PEP-4.25.1
5. EDPI-4.37.0
6. PEP-4.46.1
7. PEP-4.62.1

J. A. Pucci MLW

Gary F Ewert, Division Head
Quality Services
Midland Project QA Department

GFE/JAP/gld

CC JKepler, NRC Region III Administrator
DLQuarame, SMO
RAWells, MPQAD

OC1183-0001A-QL04

831170346

*sent to DMB
11/14/83*



STONE & WEBSTER MICHIGAN, INC.

P.O. Box 2325, BOSTON, MASSACHUSETTS 02107

PRINCIPAL STAFF		
RA	<i>has</i>	CPRP
D/RA		CE
A/RA		DRISP
RC		DRMA
PAO		SCS
SGA		M
ENF		File <i>has</i>

*orig
+3*

Mr. J. J. Harrison
 Nuclear Regulatory Commission
 799 Roosevelt Road
 Glen Ellyn, Illinois 60137

November 17, 1983
 P.O. NO. 14509

Re: DOCKET NO. 50-329/330
 MIDLAND NUCLEAR COGENERATION PLANT
 MONTHLY THIRD PARTY ASSESSMENT MEETING

The protocol governing communications for the Remedial Soils and Construction Completion Programs at the Midland Plant, specifies a monthly meeting to discuss third party assessment activities and assigns preparation of the minutes of those meetings to Stone & Webster.

Enclosed are minutes of the meeting held on November 10, 1983.

A. P. Amoruso
 A. P. Amoruso
 Project Manager
 CIO

A. S. Lucks
 A. S. Lucks
 Project Manager
 Underpinning and Remedial Soils

Enclosures

cc:
 JWCook, CPCo
 DLQuamme, CPCo
 RAWells, CPCo

8312060161

NOV 25 1983

MINUTES OF THE MEETING ON NOVEMBER 10, 1983

INDEPENDENT ASSESSMENT OF UNDERPINNING AND REMEDIAL SOILS WORK

Purpose

To discuss Third Party Overview activities of Stone & Webster (S&W) and observations encountered regarding underpinning and remedial soils work.

Summary

A.S. Lucks opened the Assessment Teams presentation by describing the tracking and closure system for open items identified during the daily meetings. This system was developed to address the concerns expressed by the Nuclear Regulatory Commission during the October Public meeting. Items are now classified as Open, Closes Item xx-xx, Closed, Information, and Opinion. Open items will not be closed until the required action is verified by the Assessment Team. Verbal commitments will no longer be used as a basis for closing open items.

The revised classification and tracking system has been in use for the last four weeks and Assessment Team procedures are being revised to reflect this new system.

A.S. Lucks also stated that past weekly reports are being reviewed to determine if open items have been closed without verification of required action. The review of reports 30 through 57 has been completed and five such items have been identified. The required action had not been taken in only one of these five items. Reports 1 through 29 are

currently being reviewed.

P.J. Majeski described the Assessment Team activities during the period October 9 through November 5, 1983, as follows:

- Due to Stop Work Order presently in effect there has been little progress in the underpinning since last month. For the auxiliary building, sixteen underpinning piers have been completed and the Pier E/W8 grillages have been installed.
- Typical Assessment Team activities included overviewing reinforcing installation for the Borated Water Storage Tank (BWST) foundations, removal of 36 inch diameter casings, interorganizational weekly meetings, installation of struts between underpinning piers, concrete crack monitoring, review of previous weekly reports for verification of closure of open items, and the change document Stop Work Order.
- The Assessment Team has found that operations associated with the above mentioned activities were being performed in accordance with project procedures and good practice with two exceptions. The first exception was the slurring and concreting operations associated with the 36 inch diameter casing removal. The contractor took steps to make sure that the hole was completely backfilled. The slurring procedures are being reviewed. The second exception concerned the most recent crack mapping at the auxiliary building. The mapping had been performed using a procedure that had a "hold" indicated on a relevant part of the procedure. This resulted in the issuance of Nonconformance Identification Report No. 16. It was noted

that the no deficiencies were noted in the actual mapping operations.

- The current status on Nonconformance Identification Reports (NIRs) is, NIR No. 15 has been closed, NIR No. 14 remains open but a response has been received by the Assessment Team, and NIR No. 16 has been issued.
- There are currently 17 open items requiring action or responses by Consumers Power Company (CPCo) or the Contractor.

A.S. Lucks described the results of the Assessment Team overview of the change document Stop Work Order and the plan of action that has been developed to address the potential problem. A Stone & Webster Engineering Assurance specialist visited the site to assist the Assessment Team in this review. The Assessment Team determined that:

- The extent of the potential impact of the problem cannot be determined until the change documents have been evaluated. Therefore, the Stop Work Order was warranted.
- The plan of action that has been developed to the identification, evaluation, and correction of potential problems is thorough and appropriate. The plan provides for trackability of corrective actions.
- The organizations involved in executing the plan realize that changes to the plan might be required based upon the findings.

All of the parties involved in work related to the resolution of the Stop Work Order cooperated with the Assessment Team staff making this review.

A.S. Lucks described two Assessment Team concerns that should be addressed during the resolution of the Stop Work Order. The first concern involves

the large number of change documents that are attached to some drawings (this is also a concern that has been expressed by Dr. Landsman). The second concern involves the time delay between interim and final approval of Field Change Requests (FCRs).

Questions and Answers

Mr. J.J. Harrison asked several questions concerning items included in Assessment Team Weekly Reports Nos. 55 through 58:

1. There have been several instances where the Assessment Team has identified time delays in the underpinning work. For example, in Weekly Report No. 55 there was an observation on a delay due to a concrete pour card not being signed off in a timely manner. Is Stone & Webster tracking such items and what is CPCo doing to respond to these observations? Stone & Webster stated that time delays are continuing to be evaluated as part of the ongoing assessment. If a delay impacts quality it will be identified as an Open Item or an NIR. CPCo stated that they were aware of the Assessment Teams concerns with respect to time delays and were trying to improve. For example, the interorganizational weekly meetings should help to improve performance in this area.
2. On page 3 of Weekly Report No. 55, the Assessment Team commented on problems with U.S. Testing. Has there been progress in correcting the problems? Stone & Webster stated that the Assessment Team is continuing to follow this item. Progress is being made in correcting the problems. The problems include management problems, training of staff, and the availability of certified staff when required.

3. Item 59.17 in Weekly Report No. 59 concerns Nonconformance Reports on concrete for Carlson meters. Does this have anything to do with U.S. Testing? CCo did not believe that this item concerned U.S. Testing but a positive answer could not be given. This item will be responded to at the December Public meeting.
4. Item 55.14 in Weekly Report No. 55 refers to correspondence between MPQAD and FSO on PQCI's that require updating. Could Stone & Webster explain the purpose of this communication? The purpose of the communication is to provide MPQAD advance warning of upcoming work that may require revision of PQCI's and retraining of inspectors. It is for scheduling purposes and intended to help in avoiding delays.
5. Item 55.15 in Weekly Report No. 55 identifies a problem with a Fox-Howlet couplers being installed by a noncertified installer. Did Stone & Webster identify this problem before the NCR was initiated? No.
6. Item 55.20 in Weekly Report No. 55 refers to a work stoppage at the Standish fabrication shop. What was the problem and was it a formal Stop Work Order? The work stoppage arose after a QC Inspector discovered an Incorrect Design Change Notice. Inspection of the work could not proceed and Standish then elected to stop work. It was not a formal Stop Work Order. Mr. Harrison commented on the importance attached to the phrase "Stop Work" and the problems that could be caused by incorrect usage.
7. Item 55.22 in Weekly Report No. 55 the Assessment Team questioned why the Contractor removed beam seats that had previously been

installed. Item 55.22 is closed with the response given in 55.30. Explain the basis for closing Item 55.22. The Contractor removed the beam seats upon realizing that because the required levels of the beam seats were indeterminate and they might not have been located within the required tolerances. When the required level was determined, the beam seats were reinstalled in accordance with the required tolerances. This explanation answered the original question asked in Item 55.22 thus closing the item.

8. In Weekly Report No. 55, Item 55.27 refers to a type of audit report issued by field engineering on U.S. Testing. Is field engineering now conducting audits? This was not a formal audit but a result of a review of U.S. Testing operations by field engineering. There were no quality items identified. A copy of the observations was available to MPQAD. Mr. Harrison requested that MPQAD compare their audit findings to the field engineering observations and report on the comparison at the December Public meeting.
9. Item 55.32 in Weekly Report No. 55 mentions that prior to discharging concrete the mixing drum on the concrete truck was observed to be stationary. This has been a recurring problem. What is CPCo doing to avoid recurrence of this problem? CPCo will evaluate this problem and report on it at the December Public meeting. Stone & Webster noted that this item is classified as open and is being tracked. FSO is preparing a response to the Assessment Team.
10. Item 55.33 in Weekly Report No. 55 mentions a new piece of equipment may be used for concrete removal. Could CPCo

described the new equipment? CPCo stated that they are evaluating several types of skid mounted industrial type impact hammers.

11. In Weekly Report No. 56 the Assessment Team identifies concerns with the slurring and concreting associated with the 36 inch diameter casing removal. Are these concerns being tracked by Stone & Webster? The items concerning the slurring procedures are being tracked. Our concern with respect to the lag between reaming and backfilling with concrete was resolved by the drillers checking to make sure that the hole remained open.
12. Item 56.1 in Weekly Report No. 56 identifies sub-items A through F. Only sub-item F is identified as an Information Item. What about A through E? The Classification of Information Item was intended to apply to all sub-items.
13. Item 56.32 in Weekly Report No. 56 refers to the use of green tags with QC hold tags. Can you explain when green tags are used? The green tags were used to identify the items not impacted by the hold tag. They were only in use for a few weeks. The use of green tags were discontinued because they were not included in the non-conformance procedures.
14. Page 3 of Weekly Report No. 57 refers to the change document Stop Work Order. Is Stone & Webster evaluating the action being taken by CPCo? Yes, this was covered during the Stone & Webster presentation. Will this evaluation continue until the corrective action is completed? Yes. Can CPCo give the projected date for completion of the action? Everything should be completed by December 1. The soils related action could be completed between November 17 and December 1. Will it include the effect on non-soils related items as they effect soils? Yes.

15. Item 57.7 in Weekly Report No. 57 refers to the phased inspection of the reinforcing steel for the Borated Water Storage Tank foundations. How will this ensure that the reinforcing steel inspected in the initial phases will not be disturbed prior to completion of the work? The concrete is being poured in circumferential segments so as soon as a segment of reinforcing steel is inspected, concrete will be poured in that segment.
16. Item 57.10 in Weekly Report No. 57 concerns lessons learned from the auxiliary building underpinning. It states that no formal program exists for evaluating and transferring lessons learned to date. Mr. Landsman requested that all lessons learned on the auxiliary building underpinning be incorporated into the Service Water Pump Structure underpinning. CPCo agreed to work with the NRC on this.
17. Item 57.11 in Weekly Report No. 57 concerns welding required for lagging at the Service Water Pump Structure. Mr. Landsman pointed out that he had the same observation.
18. Item 57.13 in Weekly Report No. 57 mentions additional penetrometer testing. Why are additional penetrometer tests being conducted? The testing is a continuation of the existing program that was interrupted by the drilling Stop Work Order.
19. Item 57.14 in Weekly Report 57 closes out Item 57.11 as discussed above. An FCR is being prepared to reduce the amount of welding. Should there also be an NCR issued? No. The welding was being completed in accordance with the existing documents.

20. Item 57.25 in Weekly Report 57 concerned the use of fly ash for back-fill and for backpacking behind lagging of the Service Water Pump Structure. Explain the difference between the use of fly ash that requires NRC approval on a case-by-case basis and the backpacking use at the Service Water Pump Structure that does not require NRC approval. NRC approval is required for use of fly ash for soil stabilization in area fills. The use at the Service Water Pump Structure lagging is a temporary backpacking use and does not require approval.
21. Item 57.60 in Weekly Report No. 57 deals with the certification of QC staff and requests further information on the availability and use of Level III Certified Staff. Has CPGO responded to this request? No. Has work that required a Level III Certified Signature been affected by this item? No. Will this be verified before the item is closed? The Assessment Team's concern is not that staff signing off on various items are not certified to Level III but we would like to see organizationally how Level III advice is made available to Level II and Level I Staff.
22. Item 57.70 in Weekly Report No. 57 concerns QC inspection of pre-heat on non-structural welds. Is QC verifying the preheat on these welds? Yes. The preheat is 100 percent verified. The final weld is inspected by the field welding engineer. QC verifies that this inspection has been done by verifying that the field welding engineer has signed off for the weld. Based upon a possible concern that this sounds as if field engineering is doing QC functions CPGO was asked to respond more fully to this idea at the December Public meeting.

23. In Weekly Report No. 58, page 2, it is noted that with reference to the change document Stop Work Order, the effort to date has been directed towards change documents that are a problem. How do you know what is a problem unless every change document is reviewed? All change documents are being reviewed as part of Phase I of the action plan. The problem change documents identified in Phase I will then be evaluated in Phase II.
24. Item 58.4 in Weekly Report No. 58 mentions that approximately 500 change documents have been reviewed and 30 percent had some type of problem but only 6 percent required any form of corrective action. What type of problems existed that did not require corrective action? The numbers given were very preliminary and based upon an initial review, more current data is now available. The 30 percent represented potential problems. Mr. Harrison requested that this item be discussed in more detail at the December Public meeting with specific numbers related to the soils work.
25. Item 58.12 in Weekly Report No. 58 identified an Assessment Team concern with respect to the number of change documents attached to drawings. The NRC is still concerned about this item. This is an Assessment Team Open Item and the concern is being addressed by CPCo.
26. Weekly Report No. 59, page 2, Item 59.5, and Item 59.18 deal with Assessment Team concerns with respect to crack mapping. These items raise concerns with respect to the status of the crack mapping. CPCo should address these concerns before the lifting of the Stop Work Order.

27. With reference to the closing of Open Items, will the Assessment Team closure take place after action is taken? Yes.
28. With reference to the review of previous Weekly Reports for Open Items that were closed without verification of required actions, how many items have been identified and how will they be documented? Five items without verification of required actions have been identified to date. They are being listed as Open Items in the revised tracking system.
29. With reference to the Assessment Team report entitled, "Evaluation Change and Non-conformance Documents," will the NRC routinely receive copies of such reports? In accordance with Assessment Team Procedures, the NRC will receive copies of all reports. Have there been other reports? There have been no other free standing special reports. There might have been shorter reports attached to the Weekly Reports. The Assessment Team should be prepared to discuss this report at the December Public meeting.

The discussion of the soils work concluded with the following statement by Mr. J.J. Harrison:

"I have a few general comments, and then we will move on to the CIO area. I want to point out that Stone & Webster continues to identify problems which all seem to relate to various delays caused by lack of planning or coordination of activities, lack of action or taking positive action in given areas. To me, this indicates a continuing lack of attention to detail, and in general, the management of this activity still needs improvement.

Mr. Mooney stated a few minutes ago -- earlier in this meeting that Consumers Power did not wish to act expeditiously in resolving issues. They wanted to make sure they do it right.

And in regards to the statements that Consumers Power Company offered in the newspapers yesterday about the NRC being the delay, I would like to simply say that we also like to act expeditiously, but we also like to do the job right the first time.

I would expect Consumers Power Company to act on this issue and to act responsibly and to stop passing the buck and placing the blame on the NRC."

Required Actions

The following actions are required by the Assessment Team:

1. Present additional information on Item 59.17 at the December Public meeting,
2. Present an update of the Status of the Stop Work Order resolution activities at the December Public meeting,
3. Discuss the report entitled "Evaluation of Change and Non-conformance Documents" at the December Public meeting.

The following actions are required by CPCo:

1. MPQAD will compare the findings from their audit of U.S. Testing with the field engineering observations of U.S. testing operations (Refer to discussion item 8). The results of this comparison will be presented at the December Public meeting.
2. At the December Public meeting CPCo will report on an evaluation of the concrete truck mixer drum rotation problem discussed above in item 9.
3. CPCo agreed to make sure that the lessons learned in the underpinning at the Auxiliary Building are transferred to the Service Water Pump Structure.

4. At the December Public Meeting CPCo will respond to the NRC concerns with respect to the QC inspection of non-structural welding on Q materials.
5. CPCo will address concerns expressed with respect to crack mapping before the Stop Work Order is lifted.

MINUTES OF THE MEETING ON NOVEMBER 10, 1983

STATUS OF CONSTRUCTION IMPLEMENTATION OVERVIEW (CIO) PROGRAM

Purpose

To discuss Third Party Overview activities of Stone & Webster (S&W) and problems encountered regarding the Construction Completion Program (CCP) during October 1983.

Summary

Mr. A. P. Amoruso, Project Manager for the CIO Program, presented a summary of Program activities for October 1983. Three main topics were covered:

• Assessment Activities

Due to stop - work orders involving concerns about the control of design changes, assessment efforts continued to be focused in October on monitoring management meetings, checking preparations for the statusing and verification part of the Construction Completion Program (CCP), and evaluating Quality Assurance and Construction Training Programs. Thirty-one management meetings were monitored to check attention being given by management to current problems and the soundness of corrective measures being implemented. Some 550 hours were expended checking prerequisites to the statusing and verification effort to identify potential weaknesses that should be followed during accomplishment of those activities. Three training presentations involving the crafts were evaluated to check the quality of formal training being given under the CCP. Some 770 hours were expended updating the 109 inspection checklists to be used by the CIO team.

Assessment activities involving the three areas outside the CCP, but within the scope of the CIO, were limited during October. Because previous checks of the Spatial System Interaction Program did not identify any significant problems, surveillance activities for this program were reduced. Because of stop-work orders that affected the Nuclear Steam Supply System and Heating, Ventilation, and Air Conditioning (HVAC) program, surveillance activities for those programs were reduced. Thirty-six training records from the HVAC program were checked to determine compliance with requirements. Tensile tests of 90 welding specimens from the HVAC program were witnessed to verify that welds made under superseded procedures met design requirements.

• Observations, Nonconformances, and Hold Points

Two observations were made during October, both related to training records. One of the observations involved four nonconformances in Quality Assurance Department training records. The other observation was a nonconformance in Construction training records. A third observation remained open from the last meeting. That observation addressed the need to develop a vendor equipment verification program.

Four of the six nonconformances that have been identified since the beginning of the CIO Program remain open. The four address discrepancies in training records. A seventh nonconformance that addresses discrepancies in the training records of supporting groups was issued in November and will be discussed at the next meeting.

Four hold points that were established by the CIO Program remain open. Two of the hold points require correction of training records before the people involved can be used in the CCP. One of the hold points requires

the development of a vendor equipment verification program before remaining work can start. The fourth hold point requires a review of management actions after completing the statusing and verification effort but before starting remaining work.

• Highlights of October

The original plan for assessing the CCP was to check that the latest approved documents were being used in the field. This was to be accomplished by comparing field holdings against the master project register. This plan will still be followed to ensure that corrective action for the difference between field and project engineering FCR/FCN registers has been effective.

An anonymous telephone call was made to the CIO office on October 26, 1983, alleging that welding had been performed contrary to authorized procedures; i.e. numerous carbon steel socket welds in the Turbine and Auxiliary Buildings had been made by STICK welding and repaired by TIG welding. The call was reported to the site NRC office and Consumers Power Company, and the CIO conducted an investigation. The results of the investigation were that some socket welds had been made as alleged but nothing was wrong with welding in that sequence. The ASME Code and Bechtel Technical Specification for welding authorized that sequence.

The discrepancies noted in training records for Quality Assurance Department and Construction personnel are administrative in nature. Consumers Power Company has provided actions being taken to correct Quality Assurance records, and the CIO concurs in those actions. A reply that addresses corrective actions for Construction training records is expected shortly.

The plan for staffing the CIO team was stated at the last meeting as reaching 21 people by the end of October. This plan has been modified due to the stop-work orders. Seventeen people are currently assigned with more people to be added as CCP activities dictate.

During last month's meeting, questions were asked about craft training and the adequacy of the training matrix. Three training sessions for the crafts were monitored and evaluated as satisfactory. Craft training records will be checked after the records are assembled. The matrix was checked to ensure that applicable procedures were covered and that an adequate level of training had been prescribed. Procedural coverage was evaluated as satisfactory. Four out of 50 items sampled in the matrix were evaluated as requiring an increased level of training. Additional checks on the matrix are on-going.

Questions and Answers

- Mr. J. J. Harrison, NRC, asked why the issue on welding criteria in Project Quality Control Instructions (PQCI) had been closed out in August but had to be reopened in October because corrective action had not been completed. Mr. A. P. Amoruso, S&W, replied that an observation had been opened in early August addressing the potential problem of having welding criteria in multiple PQCIs. The observation was classified as a Request for Clarification and was closed at the end of August when Consumers Power Company provided clarification about the action they intended to take. In October, Consumers Power modified their plan and that modification was reported in CIO Report Number 18. The observation had not been maintained open because there was nothing wrong with having welding criteria in multiple instructions as long as all the instructions

were maintained up-to-date. A discussion then took place about the need to keep such information/clarification items open until intended actions are completed. The topic was tabled until the December meeting. As a second part of the question, Mr. Harrison asked Consumers Power Company (CPCo) why the stop-work order was not issued until November 3rd although the problem had been identified in August and re-identified in October. Mr. R. A. Wells, CPCo, replied that the first look at the item did not show anything necessarily wrong but did show that some clarification was needed. Later, concerns about some specific areas developed. Therefore, use of the PQCI's was stopped until all issues are clarified.

- Mr. J. J. Harrison, NRC, referred to CIO Report Number 20 and the statement made at a meeting that all inaccessible items did not have to be evaluated during Phase I of the CCP. He asked Consumers Power Company when the evaluation was going to be done. Mr. R. A. Wells, CPCo, replied that the statement at the meeting pertained to releasing new work and resulted from an understanding that inaccessible items would not have to be addressed until all accessible items were completed. He said that the statement would be looked at again.
- A member of the Public asked if any changes to original procedures were not being followed regarding the investigation into welding that was initiated after an anonymous telephone call was received. Mr. J. C. Thompson, S&W, replied that the investigation showed that nothing wrong was done.



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November 18, 1983

TRANSCRIPT OF ASSESSMENT MEETING
MIDLAND NUCLEAR COGENERATION PLANT

Attached is an unedited copy of the transcript of the Monthly
Third Party Assessment Meeting held on November 10, 1983, as
requested by Mr. R. M. Wheeler.

A. P. Amoruso
Project Manager
CIO

Attachment

cc:
JJHarrison ✓