



# STONE & WEBSTER MICHIGAN, INC.

P.O. Box 2325, BOSTON, MASSACHUSETTS 02107

PRINCIPAL STAFF			
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50-329  
50-330

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

June 16, 1983  
N.O. No. 14509  
NRC File #83-06-16

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

Copies of Stone & Webster documents developed to implement the Construction Implementation Overview of the (CPCo) Construction Completion Program are attached for your review and comments.

1. Project Quality Assurance Plan June 18, 1983
2. Quality Control Instruction, QCI 15.01 Nonconformance Identification and Reporting Rev. 0, June 14, 1983

If you have any questions with respect to the attachments, please contact me at (517) 631-8650, extension 486.

Very truly yours,

cc S.W. Baranow

S.W. Baranow  
Program Manager

Enclosure

SWB/ka

cc: JJHarrison, NRC Glen Ellyn, IL w/att  
RCook, NRC Midland (Site Manager)w/att  
DEMiller, US NRC (Site Representative)w/att  
RBKelly, S&W 245/5 w/att  
APamaruso, S&W 245/13 w/att

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

### PROJECT QUALITY ASSURANCE PLAN

Approvals:

*Leo Benson*  
Program Manager

*Crutcher for*  
Chief Engineer  
Engineering Assurance

*R. B. Kelly p.e.s.*  
Manager  
Quality Assurance

Dates:

6-13-83

6-8-83

6-7-83

SCOPE

This procedure describes the quality assurance plan for activities performed by Stone & Webster Engineering Corporation (SWEC) 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. Evaluation of the adequacy of technical and related administrative construction and quality procedures.
- d. Evaluation of the degree of compliance with technical and administrative construction and quality procedures.
- e. 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 SWEC will establish a specific communication plan at the start of the work.
- f. Submittal of brief weekly progress reports and a final report to the NRC with a copy to CPCo.
- g. Submittal of monthly reports of findings and observations to the NRC with a copy to CPCo.

- h. Monthly reports and the final report shall be reviewed by a senior level overview committee in accordance with the Project Program Plan.
- i. SWEC will not be responsible for implementing corrective action, however, their professional opinion may be requested.

## PROGRAM REQUIREMENTS AND ACTIVITIES

### I. ORGANIZATION

The overall 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 SWEC work.

This quality assurance plan identifies the procedures which implement the overall QA program as it applies to the SWEC 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 SWEC 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

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

(Instructions, drawings and specifications are not within the SWEC scope).

VI. DOCUMENT CONTROL

(Not within the SWEC scope)

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

(Control of Purchased Material, Parts and Equipment - not within the SWEC 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 SWEC scope)

IX. CONTROL OF SPECIAL PROCESS

(Not within the SWEC scope)

X. INSPECTION

Quality Assurance monitoring of the construction and quality activities is performed by surveillance of on-going work.

XI. TEST CONTROL

(Not within the SWEC scope)

XII. CONTROL OF MEASURING AND TEST EQUIPMENT

(Not within the SWEC scope)

XIII. HANDLING, STORAGE, AND SHIPPING

(Not within the SWEC scope)

XIV. INSPECTION, TEST, AND OPERATING STATUS

(Not within the SWEC scope)

XV. NONCONFORMING MATERIAL, PARTS, OR COMPONENTS

Nonconformances discovered by SWEC during the monitoring process are reported in writing to the NRC with copy to CPCo.

XVI. CORRECTIVE ACTION

Reporting under 10CFR50.55(e) is accomplished in accordance with QS-16.2 and EAP-16.2.

Reporting under 10CFR21 is accomplished in accordance with QS-16.3 and EAP-16.3.

<b>STONE &amp; WEBSTER</b>  <b>QUALITY CONTROL INSTRUCTION</b>	QCI NO. 15.01	REV. 0	DATE 6/14/83	PREPARED BY F. Bearham
	DIVISION FOC	LOCATION MNPP		
	APPLICABILITY  N/A	APPROVED BY <i>F. Bearham</i> 6/14/83		
	RE: PROCEDURE N/A			
	SUBJECT NONCONFORMANCE IDENTIFICATION AND REPORTING			

## 1.0 PURPOSE

- 1.1 To describe the system for initiating, processing, distributing and controlling Nonconformance Identification Reports (NIR), documenting field nonconformances.

## 2.0 SCOPE

This instruction applies to nonconformances identified by Construction Implementation Overview (CIO) personnel during evaluation and verification of activities associated with the implementation of Phase I and Phase II of the Construction Completion Program (CCP).

## 3.0 REFERENCES

- 3.1 SWEC Third Party Construction Implementation Overview May 19, 1983  
 3.2 SWEC Project Quality Assurance Plan  
 3.3 Processing of CIO Deficiencies, N-6 Rev. 0, May 16, 1983

## 4.0 ATTACHMENTS

- 4.1 Nonconformance Identification Report (NIR)  
 4.2 Instructions for completion of the NIR report  
 4.3 NIR Log Summary

## 5.0 DEFINITIONS

- 5.1 Nonconformance - A deficiency in characteristic, documentation or procedure which renders the quality of an item unacceptable or indeterminate. Examples of nonconformance include: Physical defects, test failures, incorrect or inadequate documentation, or deviation from prescribed processings, inspection or test procedure.

## 6.0 PROCEDURE

- 6.1 Nonconformances that are observed by (CIO) personnel and determined to have been previously identified by Consumers Power Company (CPCo.) or their Constructors shall not be reported.  
Note - Previously reported nonconformances will normally be identified by number on the Quality Control Inspection Records (QCIR) which are attachments to Project Quality Control Instructions (PQCI).  
 6.2 Nonconformances which have not been previously identified by CPCo or their Constructors shall be reported on a Nonconformance Identification Report (NIR).



- 6.3 NIRs shall be evaluated for potential reportability under 10CFR 50.55e and/or 10CFR Part 21 by the Program Manager. The Program Manager shall transmit to CPCo a copy of the NIR and a brief explanation outlining the reason(s) why it should be evaluated by CPCo.
- 6.4 Upon concurrence by the Program Manager, the original shall be transmitted to CPCo for processing in accordance with MPQAD procedure N-6, "Processing of Construction Implementation Overview Deficiencies." A copy of the NIR shall be transmitted to NRC site representative for information. Copies of NIRs shall remain in the CIO files for tracking purposes.
- 6.5 The Program Manager shall maintain communication with CPCo to determine when resolutions of nonconformances are accomplished.
- 6.6 Upon notification from CPCo that the nonconformance has been resolved, (CIO) personnel shall verify that corrective actions have been accomplished. After verification, the NIR shall be closed with a brief description of the corrective action accomplished and shall signify concurrence by signing and dating the NIR.
- 6.7 If the corrective action is considered to be unsatisfactory, the initiator shall issue a new NIR which shall be processed in accordance with paragraph 6.4.
- 6.8 A weekly report showing the status of NIRs shall be sent to the US NRC with a copy to CPCo.

## 7.0 RECORDS

- 7.1 Closed NIRs shall be distributed as follows:
  - Original of NIR and MPQAD NCR to CPCo permanent plant files
  - One copy to US NRC
  - One copy to CIO files
- 7.2 Other records shall be distributed as follows:
  - Originals of completed summary logs to CPCo permanent plant files

QCI 15.01  
Attachment 1

DATE OF NONCONFORMANCE:		NIR NUMBER _____	
IDENTIFICATION/LOCATION OF ITEMS:			
DESCRIPTION OF NONCONFORMANCE:			
INITIATOR _____ DATE _____	<div style="text-align: center; border-bottom: 1px solid black; margin-bottom: 5px;">CONCURRENCE</div> PROGRAM MGR _____ DATE _____	<div style="text-align: center; border-bottom: 1px solid black; margin-bottom: 5px;">REPORTABILITY</div> 10CFR 50.55e Yes <input type="checkbox"/> NO <input type="checkbox"/> 10CFR PART 21 YES <input type="checkbox"/> NO <input type="checkbox"/>	
CORRECTIVE ACTION BY:			
IDENTIFY ORGANIZATION TAKING CORRECTIVE ACTION			
CONCURRENCE SAT UNSAT _____ INITIATOR _____ DATE _____	NEW NIR# _____ DATE _____	<div style="text-align: center; border-bottom: 1px solid black; margin-bottom: 5px;">CONCURRENCE</div> PROGRAM MGR _____ DATE _____	
REMARKS			

Instructions for Completion of a Nonconformance Identification Report

Number - Enter next sequential number obtained from file.

Date - Enter date observation was made.

Identification/Location of Item - Use name and serial, mark or heat number, etc., or other description of items affected by the nonconformances.

Description of Nonconformance - Reference documents and requirements and explain manner in which they are violated. Include any pertinent physical condition (dimensions, test reports, damages, etc).

Initiator - Signature of Construction Implementation Overview Team member making observation.

Date - Enter date of report.

Program Management Concurrence - Signature of the Program Manager or his designee signifying concurrence with issue of the NIR.

Corrective Action - Describe action taken by CPCo. or their Contractors to correct nonconformance. Include any appropriate report numbers, specification changes and/or methods of repair, etc.

Initiator Concurrence - Signature of Construction Implementation Overview Team member reporting and concurring with corrective action.

Program Management Concurrence - Signature of the Program Manager or his designee signifying concurrence with closure of the NIR.

Date - Enter date NIR is closed.



XVII. QUALITY ASSURANCE RECORDS

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

XVIII. AUDITS

(Not within SWEC scope)

STONE & WEBSTER MICHIGAN, INC.  
 NIR LOG SUMMARY

NIR NO.	MPQAD NCR NO.	SUBJECT	DATE OF ISSUE	DATE DISP.	DATE CLOSED	COMMENTS/STATUS REP. NO.