

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

PROJECT QUALITY ASSURANCE PLAN

Approvals:

*Sw Burman*  
Program Manager

*C. Watters for*  
Chief Engineer  
Engineering Assurance

*Richard B. Kelly*  
Manager  
Quality Assurance

Dates:

*5 August 1983*

*3 August 1983*

*3 August 1983*

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. 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

- 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

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)