

VENDOR INSPECTION REPORT

U.S. NUCLEAR REGULATORY COMMISSION
OFFICE OF INSPECTION AND ENFORCEMENT
REGION IV

Report No. 99900522/79-01


Program No. 51200

Company: Bechtel Power Corporation
San Francisco Power Division
425 Market St.
San Francisco, California 94119

Inspection at: Ann Arbor Office, Ann Arbor, Michigan


Inspection Conducted: January 8-11, 1979

Inspector:

 Hale/for
R. H. Brickley, Principal Inspector, Vendor
Inspection Branch

1-18-79
Date

Approved by:

 Hale
C. J. Hale, Chief, Program Evaluation Section,
Vendor Inspection Branch

1-18-79
Date

Summary

Inspection on January 8-11, 1979 (99900522/79-01)

Areas Inspected: Implementation of 10 CFR 50, Appendix B in the area of internal audits. The inspection involved twenty-seven (27) inspector-hours onsite by one (1) NRC inspector.

Results: In the one (1) area inspected there were no deviations or unresolved items identified.

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DETAILS SECTION

A. Persons Contacted

- *S. K. Chakraborti, Project QA Engineer
- *J. M. Klacking, Project QA Engineer
- *W. G. Moring, Lead QA Engineer

*Denotes those present at the exit interview.

B. Audits

1. Objectives

The objectives of this area of the inspection were to verify that:

- a. Audit system is established which has organizational independence, authority, and is documented in procedures and/or instructions in accordance with commitments.
- b. Audit records include a written audit plan, team selection, audit schedule, and audit notification to the person or organization to be audited.
- c. Members of the audit team are independent of any direct responsibility for the activities being audited.
- d. Provisions exist for the reporting of the effectiveness of the Quality Assurance program to responsible management.
- e. The audit includes the use of checklists or procedures, detailed audit reports, and timely identification, acknowledgement, documentation of nonconformances, and subsequent corrective action and verification.
- f. Audit reports contain the audit scope, identification of auditors, persons or organizations contacted, summary of the results of the audit, the details of any nonconformances noted, the recommendations for correction, and distribution of the report to responsible management.

2. Method of Accomplishment

The preceding objectives were accomplished on the three (3) projects assigned to the Ann Arbor Office by an examination of:

- a. Section VI, No. 1 (Quality Audit System); Section VI, No. 2 (Auditor Training and Qualification); and Appendix C (Project Positions on Required ANSI Standards and Regulatory Guides) of the Project Nuclear Quality Assurance Manuals (NQAM) to verify that an audit system was established that imposed the requirements of paragraphs B.1.a. through B.1.f. above.
- b. Section B Nos. 7 (QA Management Audit Procedure), 4 (QA Department Records), 8 (Qualification of Auditors); and Section C Nos. 1 (Project Quality Monitoring), and 5 (Project Quality Audits) of the Project QA Department Manual to verify that procedures had been established which implement the requirements of the Project NQAM.
- c. A QA Master Audit Plan (MAP) for a project to determine the elements of the program to be audited each year and to verify that it satisfied B.1.b. above.
- d. The QA Management Audit Schedules for 1978 and 1979, to verify that it satisfied B.1.b. above.
- e. Four (4) reports of QA management audits conducted on two (2) projects and their associated documents i.e., four (4) Audit Finding/Action Schedules, five (5) Quality Audit Findings (QAF) and one (1) completed set of checklists for one (1) audit to verify that these audits covered the applicable elements from the MAP and that they satisfied B.1.c., B.1.d., B.1.e., and B.1.f. above.
- f. Nine (9) generic checklists utilized in the QA management audits covering the areas of engineering program control, Quality Engineering program control, design criteria, design calculations, design drawings, specification control, SAR preparation and change control, document control, and Ann Arbor EDP control to determine the scope of audits and satisfy B.1.e. above.
- g. Seven (7) reports of project audits conducted during 1977 and 1978, covering the areas of indoctrination and training, calculations-basic, design interfaces, off-project design review, drawing change notices, field change requests, and the Geotechnical Group and their associated documents i.e., seven (7) QAFs and seven (7) completed checklists to verify that they satisfied items B.1.c., B.1.e., and B.1.f. above.
- h. The records maintained on two (2) projects covering QA monitoring activities consisting of two (2) List of Potential

Monitoring Subjects (LPMS), eight (8) Quality Monitoring Schedules (QMS), twelve (12) Quality Monitoring Reference Checklists, fourteen (14) Work Plans and Logs to determine the scope, technique, and documentation of these activities.

3. Findings

- a. There were no deviations or unresolved items identified.
- b. In the later part of 1977, the Ann Arbor Office eliminated the system of project audits performed by the QA Engineers assigned to the project and replaced it with one of QA Management Audits of the project performed by SFPD personnel supplemented by the monitoring activities of the QA Engineers. It is Bechtel management position that the SFPD QA Management Audit of a project will cover the elements identified on the project MAP and satisfy their commitments to ANSI N45.2.12. Further, the monitoring activities will be utilized to supplement these audits with no credit taken for these activities toward meeting their audit requirements. The examination of the documents reported in paragraphs B.2.c., B.2.d., B.2.e., and B.2.f. above revealed that the QA Management Audits had covered those activities identified on the project MAP.
- c. The examination of the documents listed in paragraph B.2.h. above revealed that the monitoring activities are planned and scheduled via the LPMS and QMS, conducted in accordance with monitoring checklists, reported via the Work Plan and Log with deficiencies identified for corrective action on Quality Action Request forms.

C. Exit Interview

An exit interview was held with management representatives on January 11, 1978. In addition to those individuals indicated by an asterisk in paragraph A, those in attendance were:

K. D. Bailey, Engineering Manager
R. Z. Baltazar, Project Quality Engineer
R. L. Castleberry, Project Engineer
L. A. Dreisback, Project QA Engineer
J. R. McBride, Quality Engineer
J. Milandin, QA Manager
M. G. O'Mara, Quality Engineering Supervisor
G. L. Richardson, QA Engineer
E. Rumbaugh, Manager of Engineering

R. K. Vassar, Manager of Project Operations
H. W. Wahl, Vice President and Area Manager

The inspector summarized the scope and findings of the inspection. Management comments were generally for clarification only, or acknowledgement of the statements by the inspector.