B&W CONSTRUCTION COMPANY

QUALITY ASSURANCE PROGRAM
FOR THE TRANSPORTATION AND RECEIPT OF
RADIOACTIVE MATERIAL

1. QUALITY ASSURANCE PROGRAM: The B&W Construction Company has established a Quality Assurance Program that is in compliance with Title 10 Chapter 1 Part 71 of the Code of Federal Regulations and has final responsibility for the implementation of the Quality Assurance Program.

   The Quality Assurance Program is contained in the B&W Construction Company Radiation Safety Manual. This Manual is comprised of Operating Procedures which describe the administration, training, operating and emergency procedures, transportation of radioactive material, inspection and maintenance, and audits of the Radiation Safety Program.

   The Radiation Safety Officer shall be responsible for assuring that all radioactive material shipping containers are designed and manufactured under a Quality Assurance Program approved by the Nuclear Regulatory Commission.

2. ORGANIZATION: The Organization Chart shown in Attachment 1 describes the organizational structure of the Radiation Safety Program.

   Radiation Safety Officer: The Radiation Safety Officer is appointed by B&W Construction Company management. The Radiation Safety Officer reports to the Quality Assurance Manager, who reports to the Vice President through the Nuclear Services Business Manager.

   Assistant Radiation Safety Officer: The Assistant Radiation Safety Officer is appointed in the same manner as the Radiation Safety Officer.

   Site Radiation Safety Officer: The Site Radiation Safety Officer is appointed by the Radiation Safety Officer and reports to the Field Project Manager. He is functionally responsible to the Radiation Safety Officer.

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3. DOCUMENT CONTROL: The Radiation Safety Officer is responsible for the preparation and maintenance of the Radiation Safety Manual.

The Radiation Safety Manual is controlled. When a change is made to a procedure within the manual, the entire document is revised and is transmitted to each manual holder by a transmittal letter. The letter contains the instructions necessary to complete the manual revision. It is the responsibility of the individual to whom the manual is assigned to complete the revision. A Receipt of Documents form shall be completed and returned to the Radiation Safety Officer indicating that the manual revision has been completed.

4. HANDLING, STORAGE, AND SHIPPING: Written operating procedures contained in the Radiation Safety Manual describe the handling, storage, and shipping of radioactive material. Specific responsibilities are assigned to the radiographer and Radiation Safety Officer.

Radioactive material shall be stored in accordance with the requirements contained in the operating procedures. The radiation levels of the projector and the storage facility shall be recorded.

Radioactive material shall be shipped in accordance with requirements contained in the operating procedures. These procedures require that all inspections, surveys, marking, labeling, and certification be completed or performed prior to shipment.

The operating procedures require that the radiographer have calibrated and operative survey meters whenever he is handling radioactive material.

5. INSPECTION, TEST, AND OPERATING STATUS: Operating procedures contained in the Radiation Safety Manual describe the inspection and maintenance of projectors.

The radiographer shall be responsible for performing daily inspection and quarterly maintenance.

Inspection of the projector shall be performed daily prior to use in accordance with a written checklist and the results recorded.

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Quarterly maintenance shall be performed in accordance with a written checklist. The checklist shall be completed indicating that each item has been completed and the projector shall have a label affixed indicating the date quarterly maintenance was performed and when quarterly maintenance is due.

C. QUALITY ASSURANCE RECORDS: Operating procedures describe the specific records to be maintained and the retention period. The Radiation Safety Officer shall be responsible for the maintenance of records. A list of the records to be maintained is shown below.

- Records of surveys, radiation monitoring and disposal. Reference 10 CFR 20.401.
- Reports of theft or loss of licensed material. Reference 10 CFR 20.402.
- Notification of incidents. Reference 10 CFR 20.403.
- Reports of overexposure. Reference 10 CFR 20.405.
- Personnel exposure and monitoring reports. Reference 10 CFR 20.407.
- Reports of personnel exposure on termination of employment or work. Reference 10 CFR 20.408.
- Notification and reports to individuals. Reference 10 CFR 20.409 and 10 CFR 19.13.
- Radiographers Field Report #1 - Personnel.
- Radiographers Field Report #2 - Equipment.
- Quarterly Inspection and Maintenance Report.
- Radioisotope Quarterly Inventory Report.
- Leak Test Report.
- Source Transfer and Tool Packing List.
- Occupational External Radiation Exposure History - NRC Form 4.

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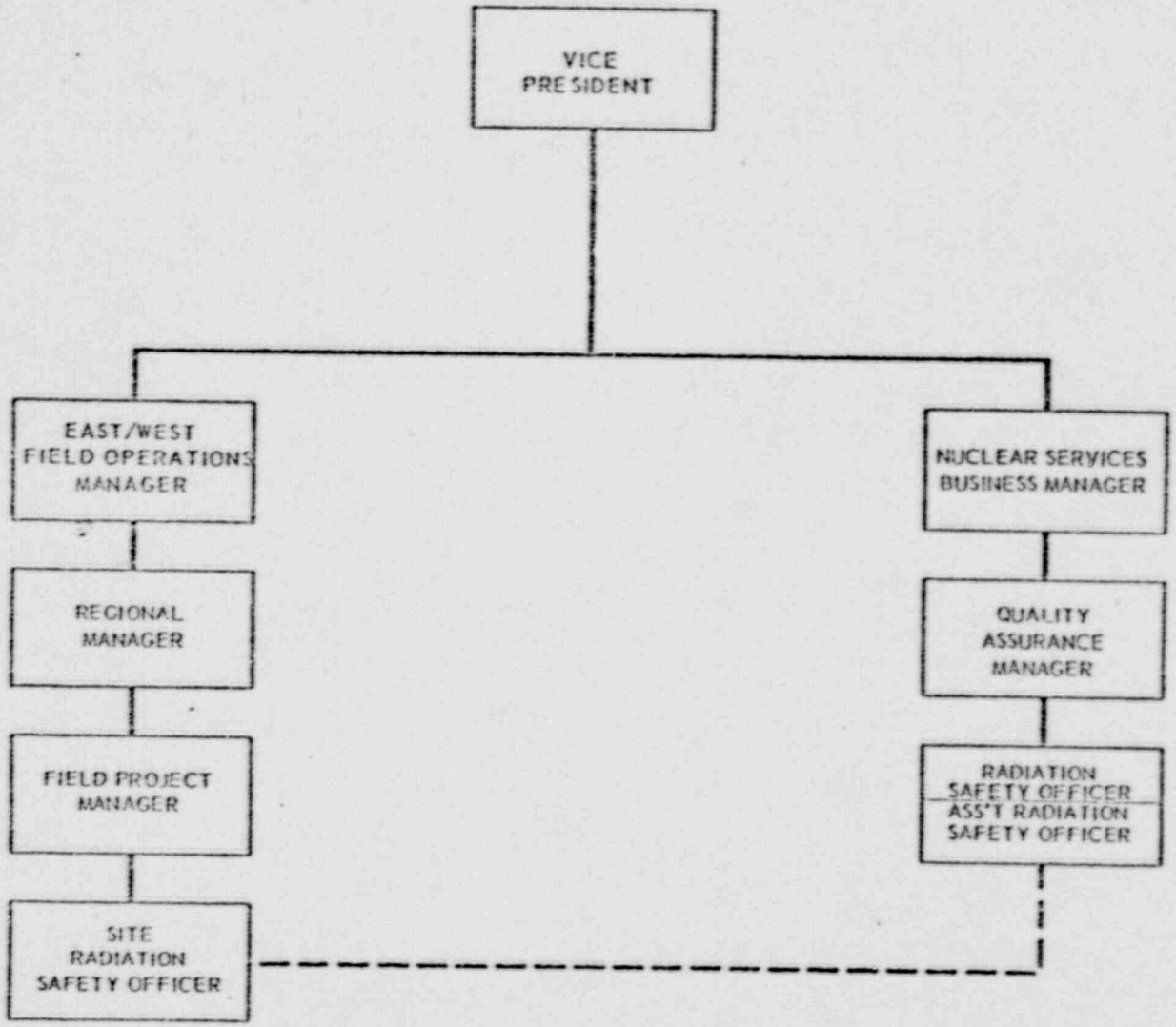
RADIATION SAFETY PROGRAM ORGANIZATIONAL CHART



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Attachment 1

- Current Occupational External Radiation Exposure - NRC Form 5.

- Certificate of Instrument Calibration.

- Radiation Dosimetry Report.

- NRC License.

- Certificate of Radiation Safety Training.

- Radiation Safety Audit Report.

7. AUDITS OF QUALITY ASSURANCE PROGRAM: Audits of the Quality Assurance Program, including the Radiation Safety Officer, shall be performed at least once per year. These audits shall be performed using written checklists and be conducted by personnel having no responsibilities for the activity being audited. The Radiation Safety Officer shall be responsible for corrective action of deficient items.

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