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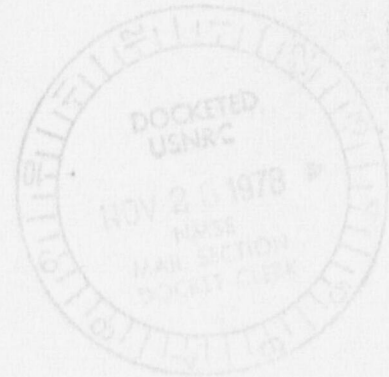
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November 20, 1978

U.S. NUCLEAR REG.
MAIL SECTION

Quality Testing Inc.
5021 W. 161 st St.
Cleveland, Ohio 44142

Director
Office of Nuclear Material Safety & Safeguards
United States Nuclear Regulatory Commission
Washington, DC 20555



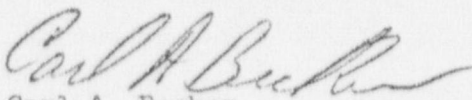
Dear Sir:

Quality Testing herewith submits for approval, a Quality Assurance Program for Use of Approved Packages in Shipment of Sealed Sources.

Upon approval, this program shall be used in conjunction with and be considered a part of our Radiation Safety and Control Manual, which makes provisions for handling and shipment of sources.

Should changes or clarification be deemed necessary, please advise.

Sincerely:


Carl A. Becker

CAB:mb

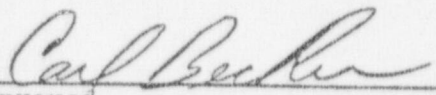
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QUALITY TESTING INC.

Quality Assurance Program for Use of
Approved Packages in Shipment of Sealed
Sources


Approved _____ RSO

Revision _____ by _____

Revision _____ by _____

1123

QUALITY TESTING INC.
5021 W. 161st STREET
CLEVELAND, OHIO 44142
433-4424

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Attachment I Organizational Chart

Attachment II Package Inspection Checklist

1.0 Organization

- 1.1 The final responsibility for the Quality Assurance Program for Part 71 Requirements rests with the Management of Quality Testing Inc. Design and fabrication of radioactive material shipping packages shall not be conducted under this Quality Assurance Program. The Quality Assurance Program shall be implemented by the Radiation Safety Officer (RSO), reporting to the chief executive officer of Quality Testing Inc.
- 1.2 The RSO shall be responsible for meeting the requirements of Part 71. He shall be responsible also, for the overall administration of the program, training and certification, document control and auditing.
- 1.3 The RSO or the designated Assistant RSO shall be responsible for handling, storing, shipping, inspection, test, operating status and record keeping.

2.0 Quality Assurance Program

- 2.1 The Management of Quality Testing Inc, establishes and implements this Quality Assurance Program. Training for all QA functions, prior to engagement in these functions, is required according to written procedures. QA program revisions will be made according to written procedures with management approval. The QA program will ensure that all defined QC procedures, engineering procedures, and specific provisions of the package design approval are satisfied. The QA program will emphasize control of the characteristics of the package which are critical to safety.
- 2.2 The Radiation Safety Officer (RSO) shall assure that all radioactive material shipping packages are designed and manufactured under a Quality Assurance Program approved by the NRC for all packages designed or fabricated after July 1, 1978. This requirement will be met by maintaining on file, the certification to this effect, received from the manufacturer.
- 2.3 This QA program shall be used in conjunction with Quality Testing Inc. approved Radiation Safety & Control Manual, which makes specific provisions for source receipt, handling, inspection, test, use, and disposal, and record keeping for these functions.

3.0 Document Control

- 3.1 All documents related to a specific shipment will be controlled through the use of written approved procedures. Documents shall be maintained on file with Quality Testing Inc. regarding source movement from receipt to final disposition.
- 3.2 The RSO shall insure that all QA functions are conducted in accordance with approved procedures, and that records are properly kept.

4.0 Handling, Storage and Shipping

- 4.1 Safety procedures as provided in the Quality Testing Radiation Safety and Control Manual, will be followed. Shipments will not be made unless all tests, certifications, and final inspections have been completed. Refer to Part I section 3 of the Manual.
- 4.2 Radiographic personnel shall perform the handling, storage and shipping, with final responsibility for compliance resting with the RSO.

5.0 Inspection, Test and Operating Status.

- 5.1 Inspection, test and operating status of packages for radioactive material will be indicated and controlled by tagging, labeling or log entry. Status of nonconforming parts or packages will likewise be noted by tagging or log entry.
- 5.2 Radiographic personnel shall perform the required inspections and tests in accordance with approved procedures. The RSO shall have final responsibility for assuring that these functions are performed and properly documented.

6.0 Quality Assurance Records

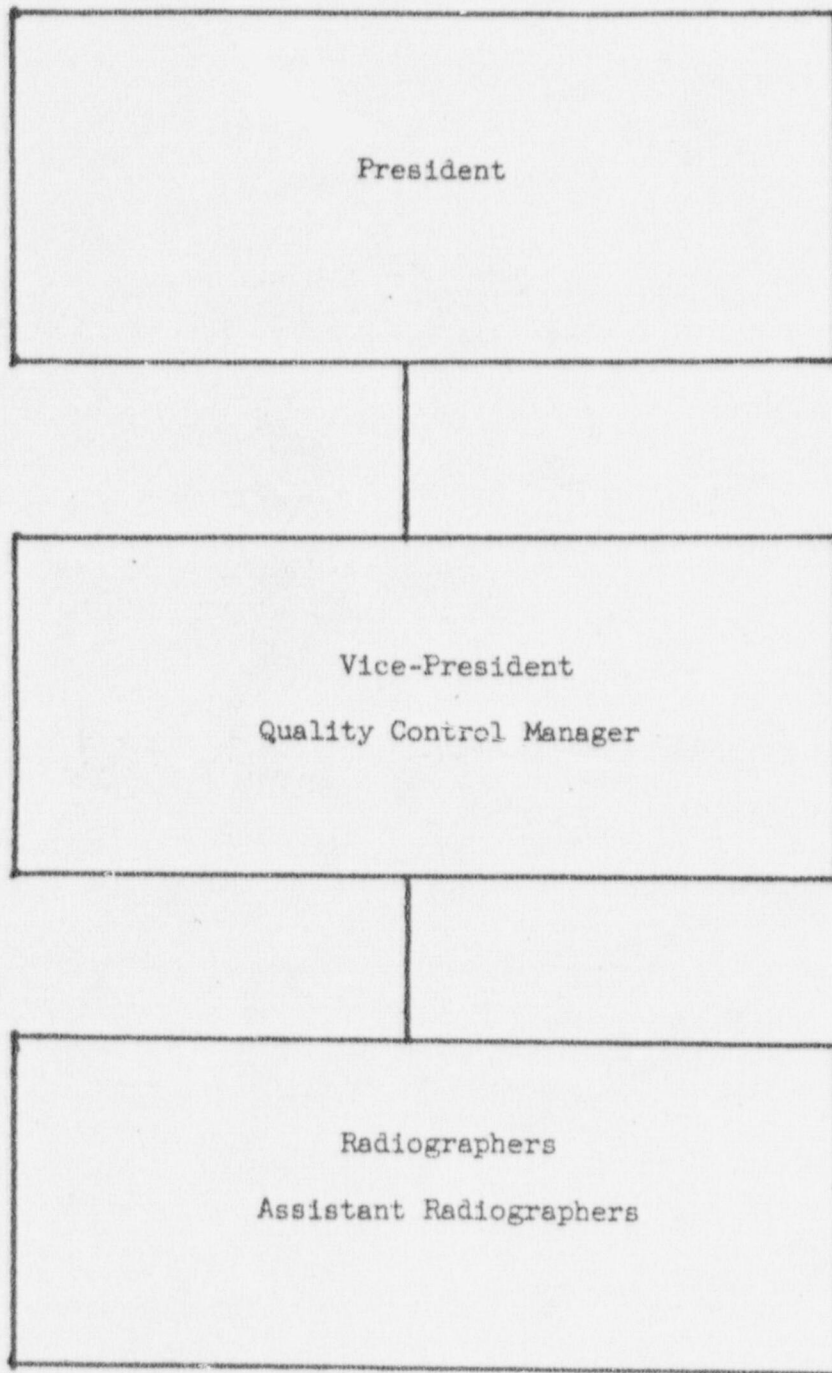
- 6.1 Records of package approvals, inspections, tests, logs and audit results, personnel training and qualifications and records of shipments will be maintained.
- 6.2 Records will be maintained in accordance with Quality Testing Inc. Radiation Safety and Control Manual, and will be available for review. The RSO shall keep shipping and receiving records on file with other pertinent Radiation Safety records.

7.0 Audits

- 7.1 Audits shall be performed, using established, approved procedures, using checklists as provided for in the Radiation Safety and Control Manual, each activity being audited at least yearly. Audit results and reports will be maintained on file and deficient areas will be corrected. Audit results will be available for review.

Attachment I

Quality Testing Inc. Organizational Chart



Attachment II

Pre-Shipment Check-List for Package Inspection

Date _____

Material shipped _____

Source Serial # _____

Curie strength _____

Shipped to _____

Package inspected for wear _____

damage _____

weakness _____

general serviceability _____

Labels and/or tags properly and firmly affixed _____

Final survey meter reading of shipment-ready container _____

Shipped via _____

Checklist completed by _____

Approved for shipment _____

RSO