MMR

MASSACHUSETTS MATERIALS RESEARCH, INC.

241 WEST BOYLSTON STREET • WEST BOYLSTON, MASSACHUSETTS 01583 • TEL. 617-835-6262

NRC License #20-19130-01

QUALITY ASSURANCE PROGRAM

FOR

TRANSPORTING RADIOACTIVE MATERIAL

PACKAGES AS REQUIRED BY

10 CFR PART 71

REVISION A
APPROVED:

Michael J. Hurst
RADIATION SAFETY OFFICER

5-28-80
DATE

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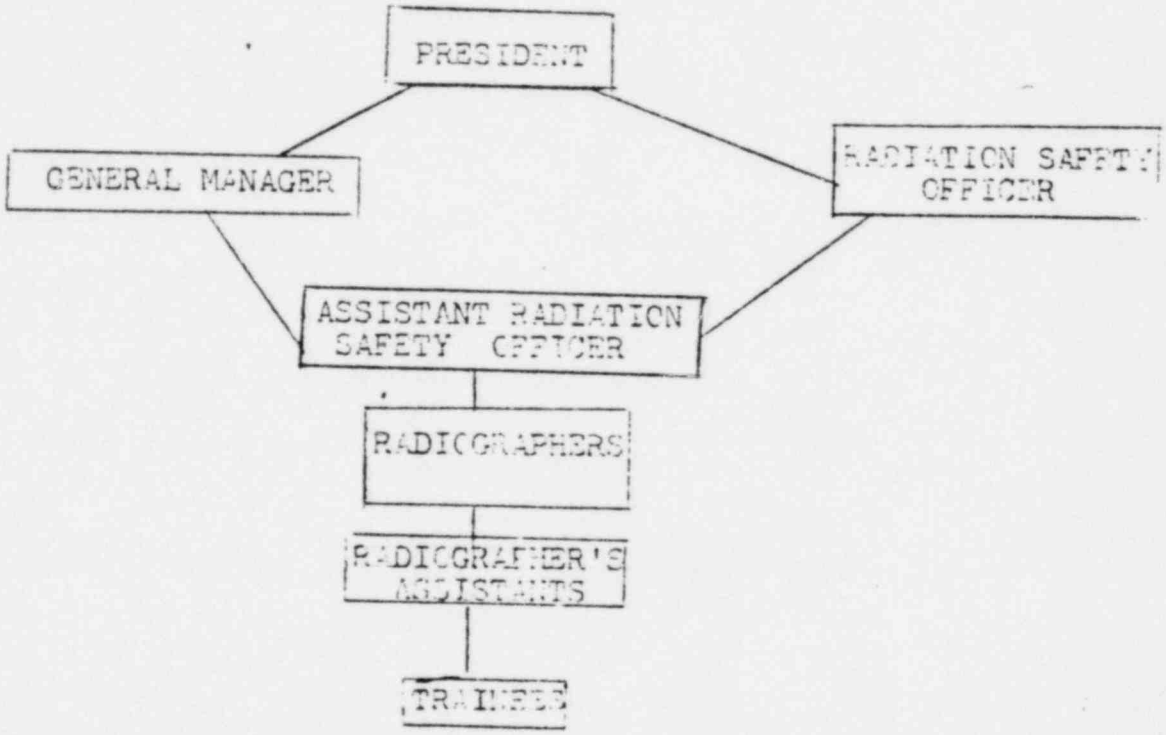
1. Organization

The final responsibility for the Quality Assurance (QA) Program for Part 71 Requirements rests with (MMR). Design and Fabrication shall not be conducted under this QA Program. The QA Program is implemented using the following organization:



The Radiation Safety Officer is responsible for overall administration of the program, training and certification, document control, and auditing.

The Radiographers are responsible for handling, storing, shipping, inspection, test and operating status and record keeping.

2. Quality Assurance Program

The management of MMR's Radiography Program establishes and implements this QA Program. Training, prior to engagement, for all QA 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

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package which are critical to safety.

The Radiation Safety Officer shall assure that all radioactive material shipping packages are designed and manufactured under a QA Program approved by the Nuclear Regulatory Commission for all packages designed or fabricated after January 1, 1979. This requirement will be satisfied by receiving a certification of this effect from the manufacturer.

3. Document Control

All documents related to a specific shipping package will be controlled through the use of written procedures. All document changes will be performed according to written procedures approved by management.

The Radiation Safety Officer shall insure that all QA functions are conducted in accordance with the latest applicable changes to these documents.

4. Handling, Storage, and Shipping

Written safety procedures concerning the handling, storage, and shipping of packages for certain special form radioactive material will be followed. Shipments will not be made unless all tests, certifications, acceptances, and final inspections have been completed. Work instructions are provided for handling, storage, and shipping operations in Parts 10 and 13 of MMR's Operating and Emergency Procedures for Industrial Radiography.

Radiography personnel shall perform the critical handling, storage, and shipping operations.

5. Inspection, Test, and Operating Status

Inspection, test, and operating status of packages for certain special form radioactive material will be indicated and controlled by written procedures. Status will be indicated by tag, label, marking, or log entry. Status of nonconforming parts or packages will be positively maintained by written procedures.

Radiography personnel shall perform the regulatory required inspections and tests in accordance with written procedures contained in Parts 7,8 and 11, Operating and Emergency Procedure Manual. The Radiation Safety Officer shall ensure that these functions are performed.

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6. Quality Assurance Records

Records of package approvals (including references and drawings), procurement, inspections, tests, operating logs, audit results, personnel training and qualifications and records of shipments will be maintained. Descriptions of equipment and written procedures will also be maintained.

These records will be maintained in accordance with written procedures. The records will be identified and retrievable. A list of these records, with their storage locations, will be maintained by the Radiation Safety Officer.

7. AUDITS:

A yearly audit of the Quality Assurance Program shall be performed by the General Manager of MMR. A written checklist (appendix I) shall serve as the record with the results maintained in the Quality Assurance files.

APPENDIX I

QUALITY ASSURANCE PROGRAM FOR NRC LICENSE #20-19130-01

YEARLY AUDIT CHECKLIST

☑ No items of noncompliance or unsafe conditions were found.

The following items of noncompliance or unsafe conditions were found.

☐ 1. A current copy of the Quality Assurance Program was not available.

☐ 2. Records of receipt, transfer or disposal of radioactive material were not properly maintained.

☐ 3. Certificates from manufacturers of radioactive material shipping containers showing that all containers designed or fabricated after July 1, 1978 were done so under a Quality Assurance Program approved by the NRC were not properly maintained.

☐ 4. Containers were not properly labeled to indicate the presence of Radioactive Material.

☐ 5. Personnel did not follow established safety procedured for handling, storage and shipping of containers containing radioactive material.

☐ 6. Personel training records were not properly maintained.

☐ 7. Other_____

_____

_____

Remarks: (Auditor to use this section to expound on any items of noncompliance or unsafe conditions checked.)

_____

_____

_____

_____

_____

Auditor: _____

Date of Audit: _____

_____

The Auditor has explained and I understand the findings of this audit. Any items of noncompliance will be corrected within the next 30 days.

_____ _____

DATE RADIATION SAFETY OFFICER

16478