

QUALITY ASSURANCE PROGRAM for RADIOACTIVE MATERIAL SHIPMENT

BYPRODUCT MATERIAL LICENSE NO. 29 - 13613 - 02

RADIATION TECHNOLOGY, INC.  
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RECORD OF REVISIONS

REV. #	DATE ENTERED	SIGNATURE

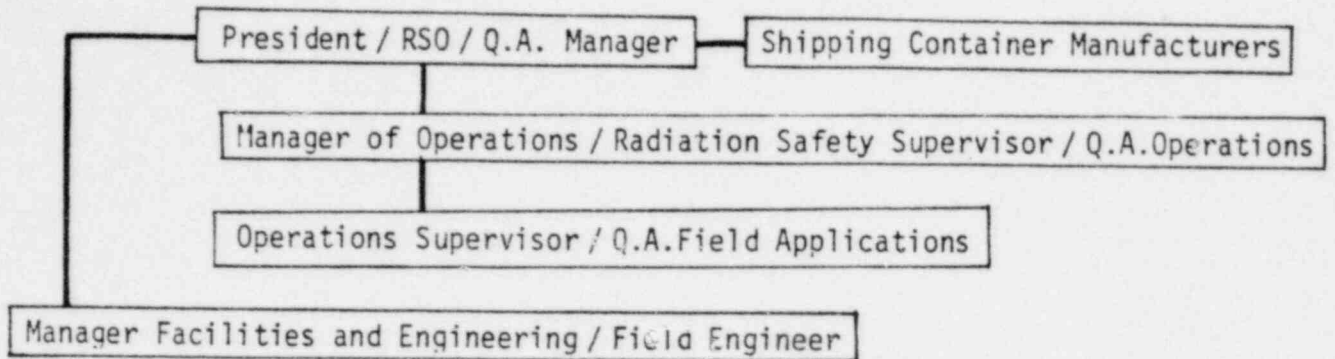
TABLE of CONTENTS

- 1.1 Organization
- 1.2 Quality Assurance Program
- 1.3 Document Control
- 1.4 Handling, Storage and Shipment
- 1.5 Inspections, Tests, and Operating Status
- 1.6 Quality Assurance Records
- 1.7 Audits

INTRODUCTION

The purpose of this program is to establish controlled procedures for handling the shipment of radioactive materials covered by BML #29 - 13613 - 02. Procedures in this program may reference BML #29 - 13613 - 02. It is the intent of this program to handle radioactive materials shipments as simply, precisely, and safely as possible. The Quality Assurance Program shall be conducted in compliance with applicable Nuclear Regulatory Commission, and Department of Transportation Regulations. Procedures conducted under this program shall also comply with state regulations for handling radioactive materials.

1.1 ORGANIZATION



- a. Q.A. Manager - Responsible for establishing and overseeing the implementation of the Q.A. program. Responsible for determining the applicability of the Q.A. program. Responsible for routine audits of the Q.A. program and has final approval of all Q.A. functions.
- b. Shipping Container Manufacturer - Responsible for all Q.A. functions in the manufacture of N.R.C. and DOT Approved shipping containers. Responsible for supplying RTI with all necessary Q.A. documentation
- c. Field Engineer - Responsible for the material condition of all shipping containers. Responsible for design and manufacturing of shipping containers in accordance with N.R.C. and DOT requirements. Must authorize use of all shipping containers.
- d. Q.A. Operations - Responsible for direct supervision and enforcement of the Q.A. program. Responsible for document control, inspections and testing, and records. Has authority to hold or stop shipments that do not meet applicable N.R.C. or DOT requirements. Responsible for training of individuals within the Q.A. program.
- e. Q.A. Field Applications - Responsible for handling and storage of shipping containers and equipment. Responsible for completing required procedures and records for the shipment of radioactive materials.

1.2 Q.A. PROGRAM

The Q.A. manager shall establish and implement a Q.A. program thru written procedures and instructions. The Q.A. manager shall establish and maintain the Q.A. program by appointing individuals within his organization who are qualified to support the program, and by replacing these individuals as necessary with suitable qualified personnel. The Q.A. program shall be revised as required by revising written instruction and procedures utilizing established procedures for revision. All Q.C. procedures, engineering procedures, and specific provisions of the package design approval shall be met for all packages used for the shipment of radioactive materials. The Q.A. program shall emphasize critical phases of package assembly and handling to promote the highest possible level of safety. The Quality Assurance manager shall assure himself that all shipping containers used by Radiation Technology are designed and manufactured under a Q.A. program approved by the Nuclear Regulatory Commission for all packages designed or fabricated after the effective date of the Q.A. program. This assurance may be achieved by a written certification by the manufacturer.

1.3 DOCUMENT CONTROL

- a. Documents related to each specific shipping package will be controlled through the use of established procedures. Document changes will be performed according to established procedures.
- b. The Q.A. manager shall insure that all Q.A. functions are conducted in accordance with the latest applicable changes to established procedures.

1.4 HANDLING, STORAGE and SHIPPING

Written safety procedures concerning the handling, storage and shipping of special form radioactive material shall be followed. Shipments will not be made unless all tests, certifications, acceptances, and final inspections have been made in accordance with established procedures and the latest specific requirements of the N.R.C. and DOT. Work instructions shall be provided to Q.A. field operations for handling, storage, and shipping operations in accordance with procedures contained in BML No. 29-13613-02 for proper radiological safety.

1.5 INSPECTION, TEST, and OPERATING STATUS

- a. Inspections, tests, and operating status of packages for special form radioactive material will be indicated and controlled by established procedures and indicated by tag, label, marking, or log entry.
- b. Inspections and tests will be conducted by Q.A. operations and verified by the Q.A. manager.

1.6 QUALITY ASSURANCE RECORDS

- a. Records of package approvals, procurements, inspections, tests, operating logs, audit results, and actions resulting from audits, personnel training and qualifications, and records of shipments shall be maintained. Descriptions of equipment and written procedures shall also be retained.
- b. A list of required records and locations shall be maintained by the Q.A. manager to allow for easy retrieval of required records.

1.7 AUDITS

Audits will be conducted of the Q.A. program annually by the Q.A. manager or persons designated by him. The results of these audits and actions taken to correct discrepancies shall be maintained on file and reported to management.