

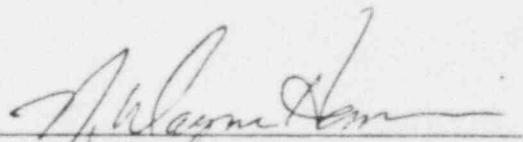


MET•CHEM

TESTING LABORATORIES, OF UTAH, INC.
369 West Gregson Avenue Salt Lake City, Utah 84115 (801) 487-0801

RADIATION SAFETY
QUALITY ASSURANCE PROGRAM
MCTL-RSQAM-100

PREPARED BY


N. WAYNE HANSEN

APPROVED BY


N. WAYNE HANSEN

CORPORATE RADIATION SAFETY OFFICER

DATE JUNE 28, 1985

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1.0 ORGANIZATION

- 1.1 THE FINAL RESPONSIBILITY FOR THE QUALITY ASSURANCE PROGRAM FOR PART 71 REQUIREMENTS RESTS WITH MET-CHEM TESTING LABORATORIES OF UTAH, INC.
- 1.2 DESIGN AND FABRICATION SHALL NOT BE CONDUCTED UNDER THIS QUALITY ASSURANCE PROGRAM. THE RADIATION SAFETY OFFICER IS DESIGNATED THE RESPONSIBLE INDIVIDUAL FOR THE PART 71 QUALITY ASSURANCE REQUIREMENTS.
- 1.3 THE RADIATION SAFETY OFFICER IS RESPONSIBLE FOR OVERALL ADMINISTRATION OF THE PROGRAM, TRAINING AND CERTIFICATION, DOCUMENT CONTROL AND AUDITING.
- 1.4 THE RADIOGRAPHERS ARE RESPONSIBLE FOR HANDLING, STORING, SHIPPING, INSPECTION, TEST AND OPERATING STATUS AND RECORD KEEPING.

2.0 QUALITY ASSURANCE PROGRAM

- 2.1 THE MANAGEMENT OF MET-CHEM TESTING LABORATORIES OF UTAH, INC., ESTABLISHES AND IMPLEMENTS THIS QUALITY ASSURANCE PROGRAM. TRAINING, PRIOR TO ENGAGEMENT, FOR ALL QUALITY ASSURANCE FUNCTIONS IS REQUIRED ACCORDING TO WRITTEN PROCEDURES. QUALITY ASSURANCE PROGRAM REVISIONS WILL BE MADE ACCORDING TO WRITTEN PROCEDURES WITH MANAGEMENT APPROVAL. THE QUALITY ASSURANCE PROGRAM WILL ENSURE THAT ALL DEFINED QUALITY ASSURANCE PROCEDURES, ENGINEERING PROCEDURES AND SPECIFIC PROVISIONS OF THE PACKAGE DESIGN APPROVAL ARE SATISFIED. THE QUALITY ASSURANCE PROGRAM WILL EMPHASIZE CONTROL OF THE CHARACTERISTICS OF THE PACKAGE WHICH ARE CRITICAL TO SAFETY.
- 2.2 THE RADIATION SAFETY OFFICER SHALL ASSURE THAT ALL RADIOACTIVE MATERIAL SHIPPING PACKAGES ARE DESIGNED AND MANUFACTURED UNDER A QUALITY ASSURANCE PROGRAM APPROVED BY THE NUCLEAR REGULATORY COMMISSION FOR ALL PACKAGES DESIGNED OR MANUFACTURED AFTER JANUARY 1, 1979. THIS REQUIREMENT CAN BE SATISFIED BY RECEIVING A CERTIFICATION TO THIS EFFECT FROM THE MANUFACTURER.



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3.0 DOCUMENT CONTROL

- 3.1 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.
- 3.2 THE RADIATION SAFETY OFFICER SHALL ENSURE THAT ALL QUALITY ASSURANCE FUNCTIONS ARE CONDUCTED IN ACCORDANCE WITH THE LATEST APPLICABLE CHANGES TO THESE DOCUMENTS.

4.0 HANDLING, STORAGE AND SHIPPING

- 4.1 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 WILL BE PROVIDED FOR HANDLING, STORAGE AND SHIPPING OPERATIONS.
- 4.2 RADIOGRAPHY PERSONNEL SHALL PERFORM THE CRITICAL HANDLING, STORAGE AND SHIPPING OPERATIONS.

5.0 INSPECTION, TEST AND OPERATING STATUS

- 5.1 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 NON-CONFORMING PARTS OR PACKAGES WILL BE POSITIVELY MAINTAINED BY WRITTEN PROCEDURES.
- 5.2 RADIOGRAPHY PERSONNEL SHALL PERFORM THE REGULATORY REQUIRED INSPECTIONS AND TEST IN ACCORDANCE WITH WRITTEN PROCEDURES. THE RADIATION SAFETY OFFICER SHALL ENSURE THAT THESE FUNCTIONS ARE PERFORMED.



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6.0 QUALITY ASSURANCE RECORDS

6.1 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.

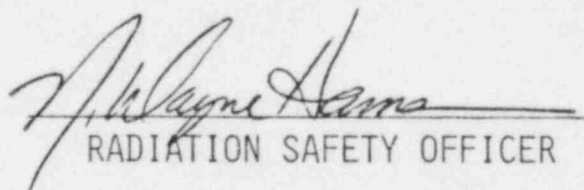
6.1.1 THE RECORDS WILL BE MAINTAINED IN ACCORDANCE WITH A WRITTEN PROCEDURE.

6.1.2 THE RECORDS WILL BE IDENTIFIED AND RETRIEVABLE.

6.1.3 THE RADIATION SAFETY OFFICER WILL MAINTAIN A LIST OF THE RECORDS AND THEIR STORAGE LOCATION.

7.0 AUDITS

7.1 ESTABLISHED SCHEDULE OF AUDITS OF THE QUALITY ASSURANCE PROGRAM WILL BE PERFORMED USING WRITTEN CHECK LISTS. RESULTS OF AUDITS WILL BE MAINTAINED. AUDIT REPORTS WILL BE EVALUATED AND DEFICIENT AREAS CORRECTED. THE AUDITS WILL BE DEPENDENT OF THE SAFETY SIGNIFICANCE OF THE ACTIVITY BEING AUDITED, BUT EACH ACTIVITY WILL BE AUDITED AT LEAST ONCE A YEAR. AUDIT REPORTS WILL BE MAINTAINED AS PART OF THE QUALITY ASSURANCE RECORDS. MEMBERS OF THE AUDIT TEAM SHALL HAVE NO RESPONSIBILITY IN THE ACTIVITY BEING AUDITED.


RADIATION SAFETY OFFICER