

CIX COOK INLET X-RAY, INC.

P. O. Box 77  
Sterling, Alaska 99672  
(907) 262-4035

Title

Quality Assurance Program

For

Industrial Radiography Licensees

And

Safe Transportation And Carriage

Of Radiographic Devices

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Attachments:

Shipping Container Inspection (yearly) form)

Management Audit form

Requisition; Receiving, Transfers and/or Disposal form

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## I Organization

The final responsibility for the Quality Assurance Program for Part 71 Requirements rests with the Cook Inlet X-Ray, Inc. 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 recordkeeping.

## II Quality Assurance Program

The management of Cook Inlet X-Ray, Inc., 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 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 to this effect from the manufacturer.

Written procedures and instructions for implementing the QA Program are contained in the Radiation Safety Program.

## III 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.

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## IV 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 will be provided for handling, storage, and shipping operations.

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

## V 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. The Radiation Safety Officer shall ensure that these functions are performed.

## VI 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.

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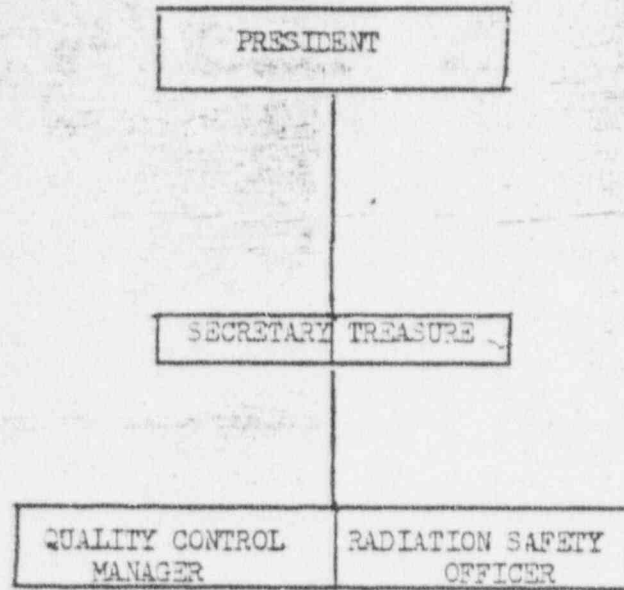
## VII Audits

Established schedules of audits for the QA Program will be performed using written check lists. Results of audits will be maintained and reported by management. 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 per 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.

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QUALITY ASSURANCE PROGRAM  
MANAGEMENT AUDIT

Radiation Safety Officer \_\_\_\_\_ Date \_\_\_\_\_

1. Copy of the Quality Assurance Program on file \_\_\_\_\_
2. The Quality Assurance Program is adequately established and implemented \_\_\_\_\_
3. Records of inspection (yearly) for shipping containers being maintained \_\_\_\_\_
4. Records of "Radioactive Material Transfer Reports" maintained \_\_\_\_\_
5. Is adequate control of shipping containers being maintained \_\_\_\_\_
6. Are audit results being reported to management \_\_\_\_\_
7. Management's inspection of at least one (1) shipping container for compliance with program requirements.

Shipping Container Model No. \_\_\_\_\_ S/N \_\_\_\_\_

Location _____	Accept	Poor	Defective
a. Condition of container	_____	_____	_____
b. Danger Peligro Cargo Aircraft Labeling	_____	_____	_____
c. Package Certification (IAEA) attached	_____	_____	_____
d. Radioactive Material Special Form N.O.S. Label	_____	_____	_____
e. Type B Labeling	_____	_____	_____
f. Package Certificate Labeling (same as model or identification No.)	_____	_____	_____
g. Inside Thermal Barrier	_____	_____	_____
h. Inside Polyurethane Filler	_____	_____	_____
i. Attach Ring Seal	_____	_____	_____
j. Container Locking Device (bolt or clip)	_____	_____	_____

Remarks \_\_\_\_\_

\_\_\_\_\_

No items of non-compliance found

Areas of non-compliance found

\_\_\_\_\_

\_\_\_\_\_

Audit Performed By \_\_\_\_\_ Title \_\_\_\_\_

RSO \_\_\_\_\_

Letter of corrective action for areas of noncompliance issued on \_\_\_\_\_ date \_\_\_\_\_

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QUALITY ASSURANCE PROGRAM FOR  
SHIPPING CONTAINER INSPECTION (YEARLY)

Assignee \_\_\_\_\_ Date Due \_\_\_\_\_

Shipping Container Model No. \_\_\_\_\_ S/N \_\_\_\_\_

Location \_\_\_\_\_

Special Instructions \_\_\_\_\_

	<u>Accept</u>	<u>Repaired</u>	<u>Replaced</u>
1. Condition of Container	_____	_____	_____
2. Danger Peligro Cargo Aircraft Labeling	_____	_____	_____
3. Attached Package Certification (IAEA)	_____	_____	_____
4. Radioactive Material Special Form N.O.S. Labeling	_____	_____	_____
5. Type B Labeling	_____	_____	_____
6. Package Certificate Labeling (same as Model or Identification No.)	_____	_____	_____
7. Inside Thermal Barrier	_____	_____	_____
8. Inside Polyurethane Filler	_____	_____	_____
9. Attach Ring Seal	_____	_____	_____
10. Container Locking Device (bolt or clip)	_____	_____	_____

Remarks \_\_\_\_\_

Designated Representative \_\_\_\_\_ Date \_\_\_\_\_

All shipping containers shall conform to the requirements of DOT and 10 CFR Part 71.

NO EXPOSURE DEVICE IS TO BE LOADED IN EXCESS OF LIMITS SPECIFIED IN IO CFT PART 34-21

## REQUISITION

Division \_\_\_\_\_ Ordered \_\_\_\_\_  
 Type of Isotope: IR 192 CO 60 No. Curies Ordered \_\_\_\_\_  
 Ordered From \_\_\_\_\_ Shipped VIA \_\_\_\_\_

## RECEIVING

Date \_\_\_\_\_ Time \_\_\_\_\_ AM/PM Received By \_\_\_\_\_  
 Curies Received \_\_\_\_\_ Serial No. \_\_\_\_\_  
 In Shipping Container Model No. \_\_\_\_\_ Shipping Container Serial No. \_\_\_\_\_  
 In Camera \_\_\_\_\_ Model No. \_\_\_\_\_ Camera Serial No. \_\_\_\_\_  
 Survey: Date \_\_\_\_\_ Time \_\_\_\_\_ AM/PM  
 Reading At Surface \_\_\_\_\_ MR/HR Reading at 3 feet \_\_\_\_\_ MR/HR

## TRANSFERS AND/OR DISPOSALS

Date \_\_\_\_\_ Source No. \_\_\_\_\_ Curie Strength \_\_\_\_\_  
 Transferred from SHP/CON No. \_\_\_\_\_ to Camera Model \_\_\_\_\_ Serial No. \_\_\_\_\_  
 Reading at 6 inches \_\_\_\_\_ MR/HR Reading at 1 meter \_\_\_\_\_ MR/HR  
 Transferred from Camera Model Number \_\_\_\_\_ Serial Number \_\_\_\_\_  
 To Camera Model Number \_\_\_\_\_ Serial Number \_\_\_\_\_  
 Reading at 6 inches \_\_\_\_\_ MR/HR Reading at 1 meter \_\_\_\_\_ MR/HR  
 Source No. \_\_\_\_\_ Transferred to Shipping Cont. No. \_\_\_\_\_  
 For Disposal To \_\_\_\_\_

## ALL SURVEYS MADE WITH THE FOLLOWING SURVEY INSTRUMENT

Meter Model No. \_\_\_\_\_ Serial No. \_\_\_\_\_ Calibration Date \_\_\_\_\_  
 Transfer and Survey Made By \_\_\_\_\_

COPY OF THIS REPORT IS TO BE ATTACHED TO ALL DECAY CHARTS FOR  
 ALL SOURCES INVOLVED IN THIS TRANSACTION