

SAFETY INSPECTION

1. LICENSEE Alaska Industrial X-Ray, Inc. 4047 Kingston Drive Anchorage, AK 99504		2. REGIONAL OFFICE U. S. Nuclear Regulatory Commission Region V 1450 Maria Lane, Suite 210 Walnut Creek, CA 94596	
3. DOCKET NUMBER(S) 030-10346	4. LICENSE NUMBER(S) 50-16084-01	5. DATE OF INSPECTION	

The inspection was an examination of the activities conducted under your license as they relate to radiation safety and to compliance with the Nuclear Regulatory Commission's (NRC) rules and regulations and the conditions of your license. The inspection consisted of selective examinations of procedures and representative records, interviews, with personnel, and observations by the inspector. The findings as a result of this inspection are as follows:

- 1. Within the scope of this inspection, no violations were observed.
- 2. The inspector also verified the steps you have taken to correct the violations identified during the last inspection. We have no further questions on those actions at this time.
- 3. During this inspection certain of your activities, as checked below, were in violation of NRC requirements.

THIS IS A NOTICE OF VIOLATION which is required to be posted in accordance with 10 CFR 19.11.

- A. _____ was not properly posted to indicate the presence of _____ 10 CFR 20.203(b), (c), (d), (e) or 34.42.
- B. Containers located in _____ labeled to indicate the presence of radioactive material, 10 CFR 20.203(f)(1), or (f)(2), _____ were not properly _____
- C. _____ frequencies, 10 CFR _____ of sealed sources were not performed at the proper License Condition Number _____
- D. Records of **audits conducted of radiographers during 1988** 10 CFR _____ were not properly maintained.
- E. Documents were not properly posted or otherwise made available. 10 CFR 19.11.
- F. Reports or notifications of _____ with 10 CFR _____ were not made in accordance
- H. **Three radiographers were audited in excess of three months.**
- I. _____
- J. _____
- K. _____

I state that within 30 days the actions described by me to the inspector will be taken to correct the violations identified in the items checked above. If corrective actions is made in accordance with the requirements of 10 CFR 2.201. No further response will be submitted unless required by _____

[Signature]
SIGNATURE - LICENSEE
DATE **June 17, 1990**

[Signature]
SIGNATURE - NRC INSPECTOR
DATE **14/1/90**

9001D90228 *[initials]*

B/A

Region V

DI

GUIDANCE FOR INSPECTION PROCEDURE 87100

INDUSTRIAL RADIOGRAPHY INSPECTION FIELD NOTES

Inspection Report No. 9001 License No. 50-16084-01
Licensee (name and address) Docket No. 030-10346

Alaska Industrial X-Ray, Inc.
4047 Kingston Drive
Anchorage, Alaska 99504

Licensee Contact. Peter Miller Telephone No. 907-344-4661

Last Amendment No. E Date of Amendment. July 6, 1989

Priority: 1 Program Code () 03310 - Fixed () 03320 - Temporary

Date of Inspection May 21, 1990

Type of Inspection { Announced { } Initial
{ Unannounced { } Special
Next Inspection Date May 1991 (Normal () Extended () Reduced
{ Reinspection

Summary of Findings and Action:

- () No Noncompliance, Clear 591 issued
- () Action on Previous N/C
- Noncompliance, 591 issued
- () Regional Action
- () HQ Action

Personnel Contacted

Three items of non-compliance were identified during the inspection.

* Those present at exit interview.

Inspector J. Frank Pans
(Signature)

Approved [Signature]
(Signature)

5/30/90
(Date Signed)

6/28/90
(Date Signed)

1.

ORGANIZATION

a. Management Structure

Don Miller, Technician
Richard Miller, Technician
Susan Kelly, Technician
Cyle Freeman, Technician

Peter Miller, President, RSC
Ken Van Dier, Radiographer
Tom Hazlett, " "

b. Administrative structure meets license requirements.
() Yes () No [L/C] [34.11(e)]
Remarks.

c. Individuals identified in the license as being responsible for the programs still hold those positions. () Yes () No
Remarks.

This is a small operation consisting essentially of Peter Miller, president & RSC and Ken Van Dier, radiographer. Tom Hazlett is a part time radiographer. He and the other technicians work when there is enough work.

d. Radiography Personnel

Radiographers

Radiographer's Assistants

See "management structure" above.

(continue d., if needed, on paragraph 22.)

2.

INSPECTION HISTORY

a. Item(s) of noncompliance or deviations noted during last inspection conducted on June 19, 1987 () Yes () No

Corrected by letter dated N.A.

<u>Requirement</u>	<u>Severity</u>	<u>Corrected</u>	<u>Status</u>
Quart. inventory has no activity record	5	✓	closed
Film bridge records not maintained	5	✓	closed
Failure to back test prior to alignment	4	✓	closed

(continue b., if needed, on paragraph 22.)

c. If any item(s) of noncompliance or deviations noted during last inspection were not corrected, explain.

(continue c., if needed, on paragraph 22.)

3. SCOPE OF PROGRAM

The licensee's operation is a small one consisting of two radiographers and another radiographer & trainees on a part time basis. Two of the trainees are the RSO's sons. See opposite page

4. TRAINING, RETRAINING AND SUPERVISION OF RADIOGRAPHY PERSONNEL

- a. Radiographers and Assistants named in license. () Yes () No
- b. Radiographer's Assistant under direct supervision of a Radiographer. () Yes () No [34.44] N.A.

Remarks.

At this time the licensee has no radiographer's assistants.

- c. Approved training program. () Yes () No
- d. Deficiencies noted. () Yes () No [L/C]

Remarks.

e. Training provided by. Pete Miller, RSO

f. Written tests. () Yes () No

g. Oral tests. () Yes () No

h. Radiographers completed field examination. [34.31)a)(4) and (b)(3)] () Yes () No

i. Record of test results. () Yes () No [34.31(c)]

Remarks.

The 1989 exam for Ken Van Dusen was missing but other documentation were available.

j. Test results reviewed by NRC inspector. () Yes () No see opposite page

k. Radiographer completed on-the-job training. [34.11(b)(3)]

() Yes () No

Remarks.

l. Retraining program required by License Condition. () Yes () No

m. Periodic training. () Yes () No

n. Retraining program implemented: () Yes () No [L/C]

Remarks.

o. Records of retraining reviewed. () Yes () No

p. Instruction to workers in accordance with 19.12.
 Yes () No
Remarks.

5. INTERNAL AUDITS OR INSPECTIONS

a. Audits or inspections conducted at 3-month intervals in accordance with 34.11(d). () Yes No [L/C]
Remarks.

* Tom Haggatt, radiographer, was audited on 4/3/89 and not audited again until 11/1/89. Tom Haggatt worked all of Feb. and March. (see opposite page)

b. Records maintained. Yes () No [L/C]
Remarks.

see opposite page

6. INSPECTION AND MAINTENANCE OF DEVICES, CONTAINERS, AND CHANGERS

a. Included in Operating and Emergency Procedures.
 Yes () No [34.32(j)]
Remarks.

b. Equipment check prior to use each day. Yes () No [34.28(a)]
Remarks.

c. Equipment check at 3-month intervals. Yes () No [34.28(b)]
Remarks.

d. Record of results maintained. Yes () No [34.28(b)]
Remarks.

7. NRC REGULATIONS, LICENSE AND OPERATING AND EMERGENCY PROCEDURES

a. Parts 19, 20, and 34; the license; and Operating and Emergency Procedures furnished to all radiographers and radiographer's assistants. Yes () No [34.31(a)(2)]
Remarks.

b. Operating and Emergency Procedures approved by NRC. [34.11(c)]
 Yes () No

8. UTILIZATION LOG

- a. Utilization log maintained. () Yes () No [34.27]
Remarks.
- b. Utilization log contains all required information. () Yes
() No [34.27(a),(b),(c)]
Remarks.

9. QUARTERLY INVENTORIES

- a. Quarterly physical inventories conducted. () Yes () No
[34.26]
Remarks.
- b. Quarterly inventories contain all information. () Yes () No
[34.26]
Remarks.
- c. Materials possessed authorized by the license. () Yes () No
Remarks.
- d. Byproduct Material inventory on. _____
Source
Changer
Model # Quantity Isotope Source S/N Camera Model S/N
The license has three exposure devices with sources.
- e. Procurement and use of byproduct material in accordance with
license requirements. () Yes () No [L/C]
Remarks.

10. MATERIALS, FACILITIES AND EQUIPMENT

- a. Fixed Facility. *U A.*
- 1) As described in application dated _____, Report
dated _____, or _____

(a). Cell(s) interlocked [20.203(c)(1)] () Yes () No *N.A.*

(b). Cell(s) controlled in accordance with 20.203(c)(2)(ii) or (iii). [34.29(b)] () Yes () No *N.A.*
Remarks.

(2) Entrance controlled in accordance with 20.203(c)(2).
() Yes () No [20.203(c)(2)] *N.A.*
Remarks.

(3) Exit in accordance with 20.203(c)(3). () Yes () No *N.A.*
[20.203(c)(3)]
Remarks.

(4) Surveillance or locked to prevent unauthorized entry.
() Yes () No [20.203(c)(4), 34.41] *N.A.*
Remarks.

(5) Visible and audible signals to warn of the presence of radiation: () Yes () No [34.29(b)] *N.A.*
(a) Alarms operated correctly; i.e., visible due to radiation; audible when entrance attempted during source exposure. [34.29(b)]
Remarks.

(6) Alarm system tested at 3 month intervals. () Yes () No *N.A.*
[34.29(c)]
Remarks.

(7) Record of alarm system test. () Yes () No [34.29(c)] *N.A.*
Remarks.

(8) Radiographic exposure devices and storage containers meet radiation level limits of 34.21. () Yes () No [34.21] *N.A.*
Remarks.

b. Storage Area.

(1) Sources locked in device. (✓) Yes () No [34.22(a)]
Remarks.

(2) Storage devices meet radiation levels Yes () No
[34.21]
Remarks.

(3) Devices secured to prevent unauthorized removal from an unrestricted area. Yes () No [20.207]
Remarks.

c. Field Location

(1) Field work authorized. Yes () No [L/C]
Remarks.

(2) Field inspection conducted. () Yes No

(3) Proper postings (signs) ropes, etc., available as required by regulations or license. () Yes () No N.A.
Remarks.

d. Survey Meters

(1) Calibrated and operable meters available and used:
 Yes () No [34.43(c)]
Remarks.

(2) Type and number available.

(3) 2 mR/hr through 1 R/hr can be measured. Yes () No
[34.24]
Remarks.

(4) Calibrated by. E & T Electronics, Inc. *see opposite page*

(5) Calibration method authorized. () Yes () No [L/C]
Remarks.

(6) Calibrated at 3-month intervals. Yes () No [34.24]
Remarks.

e. Specif. Equipment (shields, collimators, etc.)

Remarks. yes.

11. PERSONNEL MONITORING

a. Film or TLD badge supplier. R.L. Henderson - Frequency Monthly [L/C]

b. Reports reviewed by: RSD Frequency: Monthly

c. NRC inspector reviewed personnel monitoring records for period 1987 to Nov 1990

d. License exposure limit. 1.25 R/Quarter 3 R/Quarter

e. NRC forms or equivalent.

(1) NRC-4. () Yes () No Complete.* () Yes () No
* Must be completed before individuals receive more than 1.25 rems per calendar quarter.

(2) NRC-5. () Yes () No Complete. () Yes () No
[20.401(a)]

f. Maximum ~~quarterly~~ ^{annual} exposure. 560 mrem Average. _____

g. Each individual assigned film badge and dosimeter. () Yes () No [34.33(a)]
Remarks.

h. Dosimeter type. _____ Range. 0-200 mrem.

i. Annual check of dosimeter for correct response. () Yes () No [34.33(c)]
Remarks.

j. Dosimeter recharged at start of each shift. () Yes () No [34.33(a)]
Remarks.

k. Dosimeter dose recorded daily. () Yes () No [34.33(b)]
Remarks.

12. LEAK TESTS

- a. Leak test method approved. (Yes () No [34.25(c)])
Remarks.
- b. Model of leak test kit. _____
- c. Test at 6-month intervals. (Yes () No [34.25(b)])
Remarks.
- d. Record of leak test results maintained. (Yes () No [34.25(c)])
- e. Records reviewed by NRC inspector for period July 1980 present
Remarks.

13. SURVEYS

- a. Area of facility survey conducted to show compliance with 20.105. () Yes () No [20.201(b)] U.A.
Remarks.
The license has no fixed facility.
- b. Area of facility survey recorded. () Yes () No [20.401(b)]
Remarks. N.A.
- c. NRC inspector reviewed records for period _____ to _____ U.A.
- d. Maximum radiation levels in unrestricted areas.
Remarks.
≤ 2 mR/hr
- e. Survey after each exposure: (Yes () No [34.43(b)])
Remarks.
- f. Survey includes guide tube. (Yes () No [34.43(b)])
Remarks.
- g. Record of final survey before securing device at place-of-storage. (Yes () No
Remarks.

14. POSTING AND LABELING

- a. High Radiation Area posted as required. (Yes () No [20.203(c)(1)]
Remarks.
- b. Radiation Area posted as required. (Yes () No [20.203(b)]
Remarks.
- c. Use or storage area posted "Caution - Radioactive Material".
(Yes () No [20.203(e)(1)]
Remarks.
- d. Containers or devices properly labeled. (Yes () No [20.203(f)]
Remarks.
- e. Posting of "Notice to Workers". (Yes () No [19.11(a) or (b)]
Remarks.
- * The application dated 5/17/79 and the letter dated 11/19/79 were not available at the time of the inspection.
- f. Posting of "Notice to Employees". (Yes () No [19.11(c)]
Remarks.

15. CONFIRMATORY MEASUREMENTS

- a. Confirmatory measurements made by inspector. (Yes () No
- b. Survey instrument. Xetex 305B NRC Serial No. 8174
Last date of calibration. Mar. 1, 1970
- c. Describe type and results of measurements and compare these with licensee's measurements. A radiation survey was conducted of the exposure devices and storage areas. No abnormal or significant radiation levels were noted.

16. RECEIVING AND SHIPPING OF RADIOACTIVE MATERIALS

- a. Procedures for picking up, receiving, and opening of packages. (Yes () No [20.205]
Remarks.

- b. Written procedures. (Yes () No
- c. Shipping incidents since last inspection. () Yes (No
- d. Survey of packages when received. (Yes () No [20.205(c)(1)]
Remarks.
- e. Record of survey of packages. (Yes () No [20.401(b)]
Remarks.
- f. Shipment of sources since last inspection. (Yes () No
- (1) Only container authorized by licensee has been used.
(Yes () No
Remarks.
- (2) Shipping papers and package labeling properly completed.
(Yes () No [71.5]
Remarks.
- (3) Licensed material transferred in accordance with [30.41].
(Yes () No
Remarks.
- (4) Record of receipt and transfer. (Yes () No [30.51]
Remarks.

17. TRANSPORTATION (10 CFR 71.5a and 49 CFR 171-178

	<u>Yes</u>	<u>N/A</u>	<u>Vio.</u>
a. Licensee makes shipments of RAM? Such shipments are: (<input checked="" type="checkbox"/> delivered to Common Carriers? (<input checked="" type="checkbox"/> transported in licensee's own vehicle as private carrier? () both? If a. above is "Yes," complete following items:	(<input checked="" type="checkbox"/>)	()	()
b. Are Authorized Packages used? [173.415-416] Types used: DOT-7A, Type A [173.415] Performance test records on file? DOT-55 [173.416(a)]	(<input checked="" type="checkbox"/>)	()	()
	()	(<input checked="" type="checkbox"/>)	()

Licensee aware of 6/30/85 Cutoff
on use?

- | | | | |
|--|-------------------------------------|-------------------------------------|--------------------------|
| <input type="checkbox"/> Certified [173.416(b)] | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| NRC COC's on file? [71.12(c)(1)] | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Registered with NRC as user?
[71.12(c)(3)] | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Documented NRC-Approved Q/A program?
[71.12(b)] | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| NRC Q/A Approval No. _____ | | | |
| <input type="checkbox"/> Other _____ | | | |

- | | | | |
|---|-------------------------------------|-------------------------------------|--------------------------|
| c. Special Form Material Performance test records available for each source design [173.476(a)] | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d. Packages labeled as required? [172.403(a)(b)(c)(e)(f)] | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> Excepted <input type="checkbox"/> WI <input type="checkbox"/> YII <input checked="" type="checkbox"/> YIII | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Surveys performed to select correct label category and compliance with radiation limits? (175.475(i)). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e. Packages marked with required, i.e., proper shipping name, Spec. No., COC No., etc. [172.300 thru 172.310] | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| f. Shipping papers prepared for each shipments? [172.200] | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Such papers contain required information [172.203(d)] | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| g. For licensee Private Carrier Shipments:
Vehicles placarded as required? [172.500, 172.504] | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Cargo blocked, braced, tied down in vehicle? [177.842(d)] | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Any incidents reported to DOT? [171.15-16] | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| iv. Licensee carries shipping papers that are readily accessible when transporting RAM. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

18. NOTIFICATION AND REPORTS

a. Licensee in compliance with 19.13 (reports to individuals).
 Yes No [19.13] N/A
Remarks.

b. Licensee in compliance with 20.405 (overexposures).
 Yes No [20.405(a)] N/A
Remarks.

- c. Licensee in compliance with 20.403 (incidents).
 Yes No [20.403] N.A.
 Remarks.
- d. Licensee in compliance with 20.402 (theft or loss).
 Yes No [20.402(a)] or [20.402(b)] N.A.
 Remarks.
- e. Annual Report to Commission. Yes No [20.407]
 Remarks.
- f. Termination Report to Commission. Yes No [20.408] N.A.
 Remarks.

19. LICENSE CONDITIONS

- a. All License Conditions reviewed during inspection. Yes
 No
- b. Activities were conducted in accordance with License Conditions
 except as noted elsewhere in this report. Yes No
 Remarks.

20. BULLETINS AND INFORMATION NOTICES

- a. Bulletins and Information Notices issued during current year.
 Yes No
- b. Bulletins and Information Notices received by licensee. Yes
 No
- c. Licensee took appropriate action in response to Bulletins and
 Information Notices. Yes No
 Remarks.

21. ITEMS OF NONCOMPLIANCE

See appendix A.

22. CONTINUATION OF PREVIOUS PARAGRAPHS - USE BACK OF PAGE IF NECESSARY

APPENDIX A - DOCUMENTATION OF NONCOMPLIANCE

Licensee: Alaska Industrial X-Ray

License no: 50-16084-01

Reference	Basis for noncompliance
-----------	-------------------------

Report item <u>5.a</u> 10 CFR <u>34.11(d)(1)</u> Lic Cond _____ Type n/c <u>5.L.4</u>	Two radiographers were audited in excess of 90 days.
--	--

Report item <u>5.a</u> 10 CFR <u>34.11(d)(3)</u> Lic Cond _____ Type n/c <u>5.L.5</u>	Records of audits conducted of radiographers were not maintained for 1988.
--	--

Report item <u>14e</u> 10 CFR <u>19.11(i)</u> Lic Cond _____ Type n/c <u>5.L.3</u>	The application dated 5/17/79 and the letter dated 11/19/79 of the reference documents to the license were not available at the time of the inspection.
---	---

Report item _____ 10 CFR _____ Lic Cond _____ Type n/c _____	
---	--

Report item _____ 10 CFR _____ Lic Cond _____ Type n/c _____	
---	--

INSPECTOR'S REPORT
 (Continuation)
 Office of Inspection and Enforcement

DOCKET NO. (if applicable) OR LICENSE NO. (BY PRODUCT) (13 digits)		NO.	SEC.	MODULE NUMBER	VIOLATION SEVERITY OR DEVIATION	DATE RELATED
030	-10346	9001	A	581710101		
			B			
			C			
			D			

VIOLATION OR DEVIATION (Enter up to 2400 characters for each row. If the text exceeds this number, it will be necessary to paraphrase. Limit space to 20 characters each.)

Contrary to 10CFR34.11(d)(1) two radiographers had been audited in excess of 90 days.

INSPECTOR'S REPORT (Continuation)

Office of Inspection and Enforcement

BOOKET NO. (1) (2) OR LICENSE NO. (BY PRODUCT) (1) (2) (3)										NO.		MODULE NUMBER		DATE RECEIVED M C Y B						
0	3	0	-	1	0	3	4	6	9	0	1	REG.	5		8	7	1	0	0	1
VIOLATION OR DEVIATION (Enter up to 2400 characters for each item. If the text exceeds this number, it will be necessary to paraphrase. (And limit to 80 characters each.)																				

Contrary to 10CFR 34.11(d)(3), records of audits conducted of radiographers were not maintained for 1988.

INSPECTOR'S REPORT
 (Continuation)
 Office of Inspection and Enforcement

NO. SET PRODUCT (12 digits)										REPORT NO.		MODULE NUMBER		DATE		
3	0	-	1	0	3	4	6				7	0	0	ST87110101		
										A		VIOLATED BY PARTY OR PERSON		DATE		
										B		1		0		
										C		1		0		
										D		1		0		
										E		1		0		
										F		1		0		
										G		1		0		
										H		1		0		
										I		1		0		
										J		1		0		
										K		1		0		
										L		1		0		
										M		1		0		
										N		1		0		
										O		1		0		
										P		1		0		
										Q		1		0		
										R		1		0		
										S		1		0		
										T		1		0		
										U		1		0		
										V		1		0		
										W		1		0		
										X		1		0		
										Y		1		0		
										Z		1		0		

VIOLATION OR DEVIATION (Enter up to 2400 characters for each item. If the text exceeds this number, it will be necessary to paraphrase. (Limit lines to 80 characters each.)

Contrary to 10CFR 19.11 (a), the application dated 5/17/79 and the letter dated 11/19/79 of the reference documents to the license were not available at the time of the inspection.

Type of License: Radiography
Licensee: Alaska Industrial X-Ray, Inc.

License No.: 50-16084-C1

Docket No.: 030-10346

PERFORMANCE EVALUATION FACTORS

- _____ Failure of Isotope Committee (or certain key members thereof) to meet or discuss meaningful issues for a Broad Scope type license.
- _____ RSO too busy with other assignments (RSO spending less than 25% of time).
- _____ Lack of involvement of senior management to oversee RSO performance (management unaware of operations).
- _____ Inadequate consultant service (consultant not finding any problems but NRC does).
- _____ Insufficient technologist/authorized user/radiation safety staffing for licensed program workload.
- _____ Program not being audited by management or the Radiation Safety Committee.

ACTIONS TAKEN

- ___ Notice of Violation Letter with Severity Levels III ___, IV ___, V ___.
- ___ NRC Form 591 Clear ___, Violations 3.
- ___ Telephone Call to Licensee
- ___ Management Meeting with Licensee
- ___ Enforcement Conference with Licensee
- ___ Escalated Enforcement (Civil Penalty)
- ___ Early reinspection required. Date _____.

INSPECTOR'S COMMENTS

This is an average program.

J.F. Tang
Inspector

5/24/90
Inspection Date

[Signature]
Section Chief

6/28/90
Date

APPENDIX C

INSPECTION CHECKLIST
SUPPLEMENTARY INFORMATION

REPORT No.: 90-01

DATE: 5/29/90

LICENSES: Alaska Industrial X-Ray, Inc.

LIC. No.: 50-16084-01

IF BROADSCOPE - NAME/LOCATION OF PERMITTEE: _____

VIOLATIONS THIS INSPECTION
{#/PARA: 5.a ; etc. }

UNRESOLVED ITEMS
{PARA: }

UNCORRECTED/REPEAT VIOLATIONS
{PARA: }

DEVIATIONS
{PARA: }

NONCITED VIOLATIONS IDENTIFIED
BY THE LICENSEE
{PARA: }

INSPECTOR'S COMMENTS
ON PEF

This is an average program.

NONCITED VIOLATIONS IDENTIFIED
BY THE NRC
{ }

FREQUENCY CHANGE REQUIRED

PRIORITY CHANGE REQUIRED
{AUTHORITY: }

INSPECTORS WILL PRESENT THIS APPENDIX TO THE SECTION CHIEF ALONG WITH
FINAL INSPECTION DOCUMENTATION.

THIS FORM WILL BE RETAINED BY THE NMS SECTION CHIEF FOR FUTURE REFERENCE
AND STATISTICAL DATA GENERATION.

QUALITY ASSURANCE PROGRAM APPROVAL
FOR RADIOACTIVE MATERIAL PACKAGES

Pursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974, as amended, and Title 10, Code of Federal Regulations Chapter 1, Part 71, and in reliance on statements and representations heretofore made in Item 5 by the person named in Item 2, the Quality Assurance Program identified in Item 5 is hereby approved. This approval is issued to satisfy the requirements of Section 71.101 of 10 CFR Part 71. This approval is subject to all applicable rules, regulations, and orders of the Nuclear Regulatory Commission now or hereafter in effect and to any conditions specified below.

2 NAME Alaska Industrial X-Ray, Inc.			3 EXPIRATION DATE March 31, 1995	
STREET ADDRESS 4047 Kingston Drive			4 DOCKET NUMBER 71-0308	
CITY Anchorage	STATE AK	ZIP CODE 99504		

5. QUALITY ASSURANCE PROGRAM APPLICATION DATE(S)
February 26, 1990

6. CONDITIONS

Activities authorized by this approval: Procurement, maintenance, repair and use to be executed with regard to transportation packages in special form. All other shipping activities (i.e., design, fabrication, assembly, testing, and modification) shall be satisfied by obtaining certifications from package suppliers that these activities were conducted in accordance with an NRC-approved QA program. It shall remain the responsibility of the licensee-user that all transportation activities meet the requirements of 10 CFR §71.11.

UNITED STATES NUCLEAR REGULATORY COMMISSION

Chris
File in wisp file
LIC 50-16084-01

Charles E. MacDonald
Charles E. MacDonald

MAR 28 1990

DATE

CHIEF, TRANSPORTATION BRANCH
DIVISION OF SAFEGUARDS AND TRANSPORTATION
OFFICE OF NUCLEAR MATERIAL SAFETY AND SAFEGUARDS

96446507 (1P)

OF

Alaska Industrial X-ray, Inc.
(Name of Licensee)

50-16084-01
(License Number)

FOR COMPLIANCE WITH 10 CFR PART 71, APPENDIX E

1. Organization

The final responsibility for the Quality Assurance (QA) Program for Part 71 Requirements rests with Alaska Industrial X-ray, Inc.
(Name of Licensee)

Design and Fabrication shall not be conducted under this QA Program. The QA Program is implemented as shown on the attached organization chart.

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 Alaska Industrial X-ray, Inc.
(Licensee Name)

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 QA 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 QA Program approved by Nuclear Regulatory Commission for all packages designed or fabricated after July 1, 1978. This requirement can be satisfied by receiving a certification to 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.

9003020226-900226
PDR ADOCK 07100308
C PDC

1/0
Rec'd 3/2/90
WPK # 7462
#150.00
N70

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

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

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.

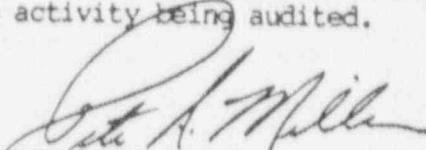
These records will be maintained in accordance with written procedures. The records will be identifiable and retrievable. A list of these records, with their storage locations, will be maintained by the Radiation Safety Officer.

7. Audits

Established schedules of audits of the QA Program will be performed using written check lists, such as shown in item 15A. The audits will be dependent on the safety significance of the activity being audited, but each activity will be audited at least once per quarter. 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.

February 26, 1990

Date


Signature and Title of Responsible Licensee Official

Peter A. Millar, President
Printed Name and Title of Responsible Licensee Official

4047 Kingston Dr. Anchorage, Alaska 99504
Licensee Address

Revised February 1990

W. D. Schuster

ED
V

FEB 9 1990

00 FEB 15 AIO: 04

SGTB:GMB
71-0308

Alaska Industrial X-Ray, Inc.
ATTN: Ms. C. A. Millar
4047 Kingston Drive
Anchorage, AK 99504

Gentlemen:

Your Quality Assurance Program Approval for Radioactive Material Packages No. 0308 expires on March 31, 1990.

If you are an NRC licensee and conduct activities under the General Licenses of Subpart C of 10 CFR Part 71, or if you are an Agreement State licensee subject to the requirements of 10 CFR Part 71, you are required by 10 C R Part 150.20 to hold a quality assurance (QA) program approved by the Commission as satisfying the provisions of Subpart H of 10 CFR Part 71. You should request renewal of your quality assurance program at least 30 days prior to the expiration date. This will provide for continuation of your QA program to satisfy part of the provisions of Subpart C of 10 CFR Part 71 until a final determination has been taken on your application.

Unless an exemption is provided by 10 CFR 170.11, an application fee of \$150.00, as required by 10 CFR Part 170.31, should be included with your request for renewal. This notice of expiration should not be construed that such notice will be provided in the future. If you do not desire to renew your QA program, please let me know.

Sincerely,

1/s/ Charles E. MacDonald

Charles E. MacDonald, Chief
Transportation Branch
Division of Safeguards and
Transportation, NMSS

DISTRIBUTION:
NRC File Center
State Health Official
AGrella, SG
LLGordon
JRCook

PDR
Region V
NMSS R/F
GBennington
SGTB R/F

OFC:	:SGTB	:SGTB	:SGTB	:SGTB
NAME:	:GMBennington	:LLGordon	:JRCook	:CEMacDonald
DATE:	:02/8/90	:02/8/90	:02/9/90	:02/9/90

9002150074