

December 15, 1980

U.S. Nuclear Regulatory Commission  
Radioisotopes Licensing Branch  
Division of Fuel Cycle and Material Safety  
Washington, D.C. 20555

Gentlemen:

Subject: Internal inspection system program per 10 CFR  
Part 34.11, sub. Para. (5) (d).

Inspection responsibility.

The inspection shall be carried out by the safety officer or his assistant.

Inspection frequency.

1. There shall be 4 announced inspections performed per year.
  - a. The announced date of the inspection shall be posted in the radiographic facility 72 hours prior to the inspection.
  - b. The inspection format shown on page two shall be used in conducting this inspection.
  - c. The results of the inspection shall be forwarded to the manager of quality assurance for further distribution to top management.
2. There shall be a minimum of two unannounced inspections made per year.
  - a. The dates of the inspection shall be determined by the safety officer.
  - b. The inspection format shown on page two shall be used in conducting this inspection.
  - c. The results of the inspection shall be filed by the safety officer.
3. Qualifications of persons currently within this program.
  - a. Quality Assurance Manager - J. Jordak. 5 years in this capacity. Selected by management for level 3 under the provisions of ASNT-TC-1A.
  - b. Safety Officer - S. Hart. 7 years experience in the use of by product material qualified as radiographer 1973 update of qualification through the provisions of ASNT-TC-1A, Level 2.

Insp. Date \_\_\_\_\_

INTERNAL INSPECTION PROGRAM

Page Two

QUARTERLY INSPECTION & AUDIT  
OF FACILITIES & OPERATION

1. Check dosimeters & survey meters for calibration.
2. Warning device operation  
Door closed light on during exposure  
Door open light on and bell ring during exposure  
Door open or closed light and bell off indicates no exposure
3. Check lock mechanisms operation and locking after each exposure.
4. Inspection of radiographic exposure devices and control cable, as detailed in the attached addendum A.
5. Conduct maintenance on crank assembly and radiographic devices, as detailed in the attached addendum B.
6. Conduct leak test on cobalt 60 using CDV 700 unit, once every 6 months.
7. Inspect and survey radiographic facility and surrounding area.
8. Operating procedures and current license properly posted.
9. Conduct quarterly inventory of sealed sources.
  1. Quantity on hand \_\_\_\_\_
  2. Types \_\_\_\_\_
  3. Location of source \_\_\_\_\_
10. Question radiographers on operational and safety procedures.
11. Observe radiographer during operations.

During this inspection no non-compliance was found. During this inspection no. \_\_\_\_\_ was found to be in non-compliance.

Describe in detail any and all items of non-compliance as well as follow up of correction action as may be required. Use separate sheet of paper for this detail.

This inspection shall be maintained for future reference and review by Teledyne OhioCast and The Nuclear Regulatory Commission, upon request.

Acknowledge receipt of this report date \_\_\_\_\_

Inspected by \_\_\_\_\_

Manager of Quality Assurance \_\_\_\_\_

This format by Steve Hart  
Safety Officer

*Steve Hart*

10 cfr, part 34.32 J continued

ref. our license 34-412-3

Page 3 of 3

**Radiographers check list**

1. Warning device operation  
door closed (light on) during exposure  
door open (light on-bell ringing) " "  
door open or closed - light off, bell off. Indicates no  
exposure based on survey with instrument.

<u>faulty operation</u>	<u>correction</u>	<u>ok</u>
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2. Source position indicator check to see if indicator moves  
during crank operation and returns to zero on return.

<u>faulty operation</u>	<u>correction</u>	<u>ok</u>
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3. Crank mechanism operation - check for smoothness of operation and  
feel for snagging

4. Lock mechanism operation - check to be sure lock works after  
each exposure.

<u>faulty operation</u>	<u>correction</u>	<u>ok</u>
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5. Source tube - check for kinks, ruptures, ravelling and  
general appearance.

<u>fault</u>	<u>correction</u>	<u>ok</u>
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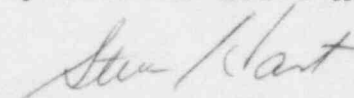
6. Drive cable outer sheaf connection to device - check for tears  
in sheaf and connections to exposure device - check wear of thread

<u>faults</u>	<u>correction</u>	<u>ok</u>
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Abnormal operation of the device and controls as noted by the  
operator - close up the room in which the malfunction occurs and  
call the chief safety officer or his assistant.

Radiographer - Note the discrepancy in the appropriate area,  
the correction if known. The safety officer will list below  
corrections and date and remove this list and put another list  
in its place. Normal operation of the device shall show no entry.  
This check list shall be placed by area for each device.

Safety officer Steve Hart



Addendum A

Inspect for

1. Changes in operating characteristics of the device
2. Proper operation of source position indicator mechanism
3. Proper operation of the crank mechanism
4. Source and drive cable wear and damage
5. Worn or damaged source and drive cable tube and connector wear or damage
6. Gauge source-drive cable connectors
7. Rust, dirt or sludge build up in source tube
8. Proper connection of all mating components
9. Damage to the device which may impair its operation
10. Cable drive gear box damage and wear
11. Proper labeling

Addendum B

Maintenance

1. Cables cleaned and lubricated
2. Repair on crank mechanism and indicator mechanism if needed



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20555

8/17/84

Teledyne Ohiocast  
ATTN: Mr. John A. Jordak  
1075 James Street  
Springfield, Ohio 45802

REFUND OF APPLICATION FEE

1. BACKGROUND:

Check Received August 9, 1983  
Application Dated July 25, 1983  
Check Number 48628  
Check Amount \$150

2. REFUND:

Amount \$150

This refund is now being processed by the Office of Resource Management and will be sent as soon as possible.

3. REASON FOR REFUND:

No review done on July 25, 1983 application for renewal of Materials License 34-00412-03. License terminated July 12, 1984.

(5)  
Glenda Jackson  
License Fee Management Branch  
Office of Administration