MUNICIPAL HOSPITAL

IOWA HOSPITAL LICENSE #148

PHONE (712)542-2176

Director of Nurses

Mrs. Beth Gregory

Administrator Ed Butler

CLARINDA, IOWA

November 26, 1982

J.R. Miller, Chief Technical Inspection Branch United States Nuclear Regulatory Commission Region 3 799 Roosevelt Road Glen Ellyn, IL 60137

Re: NRC License # 14-18869-01

Dear Mr. Miller:

This is to acknowledge receipt of your letter dated November 9, 1982, requesting further information regarding action taken to correct apparent infractions and deficiencies associated with our NRC Biproduct Materials License #14-18869-01.

Please find enclosed a copy of the operational procedure for opening packages. This form will be completed and filed for each shipment of radioactive material received.

Also included is a copy of the dose calibrator accuracy record test. We require accuracy tests to be performed using three reference standards.

To insure compliance in the future, a technologist has been hired whose responsibility is to perform dose calibrator linearity and accuracy checks. Quarterly audits will continue after the initial six month audit program is completed.

Should you require additional information or clarification, please do not hesitate to contact me.

Sincerely Administrator

8212080387 821202 NMS LIC30 14-18869-01 PDR

Member American Hospital Association - Iowa Hospital Association

CLINISHARE

2300 East Meyer Kansas City, Missouri 64132

Operational Procedure:

Subject: Procedure in Opening Packages

Effective Date: November 1, 1982

Service: Mobile Nuclear Medicine

Revised Date:

- 1. Put on gloves to prevent hand contamination.
- 2. Visually inspect packages for signs of damage (e.g., wetness, crushed). If damage is noted, stop procedure and notify Radiation Safety Officer.
- 3. A) Measure exposure rate using thin-end-window G-M Survey Meter at 1 meter from package surface and record. If greater than 10 mR/hr., stop procedure and notify Radiation Safety Officer.

B) Measure surface exposure rate and record. If greater than 220 mR/hr., stop procedure and notify Radiation Safety Officer.

- 4. Wipe external surface of final source container (each pig) with an alcohol swab. All containers may be wiped with the same swab. Remove swab to a low background area and check wipe with a thin-end-window G-M Survey meter. and take precautions against the spread of contamination as necessary.
- 5. Monitor the packing material and packages for contamination before discarding. If not contaminated, OBLITERATE radiation label before discarding in regular trash.

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Gene Huddleston Director, Nuclear Medicine & Ultrasound

CLINISHARE - MOBILE NUCLEAR MEDICINE

PACKAGE SURVEY: RADIOACTIVE SHIPMENT

Date	Time	Technologist
1. Visual	Condition of Package:	
	0.K.	
	Wet	
	Crus	ned
	Punc	tured
	Othe	(Explain)
2. Measure	ed Radiation Levels:	
	A. 1 meter from	package surfacemR/hr
	B. Package surf	mR/hr.
3. Wipe Re	esults From Final Source C	ontainer:
		mR/hr.
4. Survey	Results of Packaging to b	Discarded:
		mR/hr, CPM
5. Contam	ination Notification: Radi	ation Safety:
	Officer contacte	d on(date
	at	hours (time).

QUARTERLY	DOSE (CALIBRATOR
ACCURAC	Y TEST	RECORD

RS-32 (3/8/82)

			19	Date Test Perfor	med :		
Do	se C	alibrator Make: Model:		Seri			
Model .			T	REFERENCE STANDARDS			
Type of Measurement			137-Cs- NES-356	57-Co- NES-206	133-Ba- NES-358	Other	
		alibrator ation Factor					
CALCUL. ACTIVITY		ate Reference Std. alibrated					
	S	trength					
	Calibration Source Decay Factor						
	Calculated Activity						
Ba	ckgr	ound	1				
MEASURED ACTIVITY	Test 1	Net Activity					
	Test 2	Net Activity					
	Test 3	Net Activity					
	Average Net Measured Activity						

* %Difference of > ± 5% indicates need for instrument repair or adjustment

Reference: Appendix D, Section 2, NRC Regulatory Guide 10.8