

# CERTIFICATE OF DISPOSITION OF MATERIALS

(All items MUST be completed, please print)

LICENSEE NAME AND ADDRESS Memorial Medical Center 800 North Rutledge Street Springfield, Illinois 62781	LICENSE NUMBER 12-00089-02
	LICENSE EXPIRATION DATE November 30, 1988

THE LICENSEE OR ANY INDIVIDUAL EXECUTING THIS CERTIFICATE ON BEHALF OF THE LICENSEE CERTIFIES THAT: (Check and/or complete the appropriate item(s) below.)

## A. MATERIALS DATA (Check one and complete, as necessary)

☐ 1. NO MATERIALS HAVE EVER BEEN POSSESSED OR PROCURED BY THE LICENSEE UNDER THIS LICENSE.

OR

☐ 2. ALL MATERIALS PROCURED AND/OR POSSESSED BY THE LICENSEE UNDER THE LICENSE NUMBER CITED ABOVE HAVE BEEN TRANSFERRED ON

DATE	TO	WHICH HAS NRC LICENSE NUMBER

OR

☐ 3. ALL MATERIALS PROCURED AND/OR POSSESSED BY THE LICENSEE UNDER THE LICENSE NUMBER CITED ABOVE HAVE BEEN TRANSFERRED ON

DATE	TO	WHICH HAS LICENSE NUMBER	ISSUED BY THE STATE OF

OR

☒ 4. MATERIALS HAVE BEEN DISPOSED OF IN THE FOLLOWING MANNER. (Describe specific disposal procedures—if additional space is needed, use the reverse of this form, or provide attachments)

Nickel-63 foil source (2.5 mCi)

Transferred to Pedneault Associates, Oakdale, New York on 7/26/84.  
License # 2232-30-10 (See attached Memorandum of Record)

## B. OTHER DATA

☐ 1. OUR LICENSE HAS NOT YET EXPIRED; PLEASE TERMINATE IT.

☐ 2. WAS A RADIATION SURVEY CONDUCTED TO CONFIRM THE ABSENCE OF LICENSED RADIOACTIVE MATERIALS AND TO DETERMINE WHETHER ANY CONTAMINATION REMAINS ON THE PREMISES COVERED BY THE LICENSE? (Check one)

☐ NO

☒ YES, THE RESULTS (Check one)

☒ ARE ATTACHED, OR

☐ WERE FORWARDED TO NRC ON (Date)

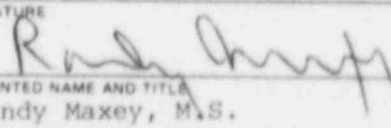
This is a sealed source. The source was leak tested on 5/18/84. Results are attached.

3. THE PERSON TO BE CONTACTED REGARDING THE INFORMATION PROVIDED ON THIS FORM

NAME Randy Maxey, M.S., RSO	TELEPHONE NUMBER 217-788-3267
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4. MAIL ALL FUTURE CORRESPONDENCE REGARDING THIS LICENSE TO

James Rigby, Senior Vice President and Chief Operating Officer

RETURN TO: DIRECTOR, DIVISION OF FUEL CYCLE AND MATERIAL SAFETY OFFICE OF NUCLEAR MATERIAL SAFETY AND SAFEGUARDS U.S. NUCLEAR REGULATORY COMMISSION WASHINGTON, DC 20555	CERTIFYING OFFICIAL SIGNATURE  DATE 7/16/85 PRINTED NAME AND TITLE Randy Maxey, M.S. Radiation Safety Officer
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## Sealed Source Test Data Sheet

Source & Identification Number: 6371Location of Source: Warehouse Date: 5/18/84Counting Instrument: PACKARD LS COUNTER Inspector: STALP

Counting Efficiency: \_\_\_\_\_

Settings: \_\_\_\_\_

Wipe or Leak Test Materials: \_\_\_\_\_

Procedure: All samples should be counted for a length of time sufficient to collect 10,000 counts. When this is not feasible a 10 minute count time can be used for low activity samples.

Data: Total Counts: Attached Count Time: \_\_\_\_\_

CPM: \_\_\_\_\_

What type of vial was used to contain the sample? \_\_\_\_\_

Background: Total Counts \_\_\_\_\_ Count Time \_\_\_\_\_

CPM: \_\_\_\_\_

## Calculations:

$$MDA = \frac{3 \sqrt{2N}}{t} \text{ (cpm)} \times \frac{100}{E} \times \frac{1 \text{ (}\mu\text{Ci)}}{2.2 \times 10^6 \text{ (dpm)}}$$

MDA = minimum detectable activity

N = number of background counts

t = time

E = % efficiency

Removable Activity:

$$A(\mu\text{Ci}) = \frac{N}{t} - \frac{N_B}{t} \cdot \frac{100}{E} \cdot \frac{1}{2.2 \times 10^6}$$

Evaluation:

Comments:

$$= 3 \sqrt{2 \cdot 22} \times \frac{100}{14} \times \frac{1}{2.2 \times 10^6} = 9.5 \times 10^{-6} \mu\text{Ci}$$



$$38 \times \frac{100}{94} \times \frac{1}{2.2 \times 10^6} =$$

$$1.84 \times 10^{-5} \mu\text{Ci}$$

$$= .0000184 \mu\text{Ci}$$

OK

STALP 150

John C 14

C 14 = 93.8% Eff.

PROGRAM #: 7  
 REGION A: LL-UL= 0- 19 LCR= 0 BKG= 0 % 2 SIGMA= .2  
 REGION B: LL-UL= 2- 19 LCR= 0 BKG= 0 % 2 SIGMA= .2  
 REGION C: LL-UL= 0- 0 LCR= 0 BKG= 0 % 2 SIGMA= .2  
 TIME= 1.00 QIP= SIS SCR= B/A K= 1.000

PS	SH	TIME	CPMA/K	%DEV	CPMB/K	%DEV	CPMC/K	%DEV	QIP	FLAGS	SCR	MIN
7	1	1.00	22.00	42.6	11.00	60.3	.00	.00	13.2		.500	1
7	2	1.00	38.00	32.4	22.00	42.6	.00	.00	11.8		.579	3
7	3	1.00	25.00	40.0	16.00	50.0	.00	.00	11.2		.640	4
7	BL 4	1.00	22.00	42.6	11.00	60.3	.00	.00	12.8		.500	5

MEMORANDUM OF RECORD

gm  
The Hewlett Packard 7610A High Efficiency Gas Chromatograph (model 26195, serial number A2026) was transferred to Pedneault Associates in Oakdale, New York on 6/26/84. Dr. Bradley at the New York Radiological Health Office confirmed that Pedneault was licensed to receive the gas chromatograph under license number 2232-30-10. The gas chromatograph contained a sealed Ni-63 radioactive source (2.5 mCi).

Name of Carrier: Wheeler Trucking

P.U. 7-26-84

Signature: [Signature] Tim Wheeler

[Signature]  
John T. Stalp, M.S.  
Radiation Safety Officer  
Memorial Medical Center

CONTROL NO. 7 944 4