

# MATTINGLY TESTING SERVICES, INC.

P.O. Box 3126 Great Falls, Montana 59403 • (406) 264-5471

March 21, 1994

U.S. Nuclear Regulatory Commission  
Document Control Desk  
Washington D.C. 20555

Subject: **Response to Notice of Violation**  
RE: Docket Number 030-20836.  
License: 25-21479-01

ATTN: Document Control Desk

The following is Mattingly Testing Services Inc.'s response to NRC letter dated February 23, 1993, Notice of Violations. Specific action taken in response to notification are listed along with attachments of report changes and information necessary to ensure compliance with NRC regulator requirements.

#### Item A

New Alarming Rate Meters were purchased in June of 1993 to replace the existing model 18C's.

We have modified our Radiation Survey & Daily Inspection Reports to include an area to record the radiographers or assistant Radiographer's rate meter serial number and calibration due date (copy attached). This will keep our radiographers aware of the calibration due date as well as the radiation safety officer who reviews and files the report.

#### Item B

After our inspection by the NRC in April of 1993 some of the records were removed from the file and placed in storage. Both radiographers have been Employed prior to this inspection as the dates on their tests show. These tests were in storage and I didn't think to look there while the inspectors were here (copies of front page of test attached).

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PDR ADDOCK 03020836  
C PDR

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Item C


1) All radiographic exposure devices were checked for the Yellow II or Yellow III Labels and only the one was found to be wrong. This label was replaced with a new label and the exposure device resurveyed for the current Transportation Index.

2) Also each Shipping Container, and Exposure Device was checked for the "RQ". All were updated by adding the "RQ" to each item as required.

Our Transportation Certificate has been modified to include the "RQ" as required(copy attached).

All of the above violations have been corrected as of this date. New Radiation Survey and Daily Inspection Reports and Transportation Certificates are in use.

Sincerely,



Mark M. Mattingly R.S.O.

cc NRC  
Regional Administrator, Region IV  
611 Ryan Plaza Drive, Suite 400  
Arlington, Texas 76011-8064



MATTINGLY TESTING SERVICES, INC.

# RADIATION SURVEY & DAILY INSPECTION REPORT

CHECK EACH ITEM BELOW

CUSTOMER \_\_\_\_\_ DATE \_\_\_\_\_

LOCATION \_\_\_\_\_

**SOURCE OF RADIATION**

IR-192  CO-60  X-RAY

ACTIVITY OF SOURCE \_\_\_\_\_ CURIE \_\_\_\_\_ GBq \_\_\_\_\_

SN \_\_\_\_\_

EXPOSURE DEVICE \_\_\_\_\_ SN \_\_\_\_\_

MODEL NO \_\_\_\_\_ SN \_\_\_\_\_

CAL DUE DATE \_\_\_\_\_

RADIOGRAPHIC EQUIPMENT INSPECTION IN ACCORDANCE WITH MATTINGLY TESTING SERVICES, INC. O AND E PROCEDURE DAILY CHECKLIST

INSPECTION COMPLETED BY \_\_\_\_\_

RECORD OF PHYSICAL SURVEY MADE TO DETERMINE SOURCE IS IN SHIELDED POSITION PRIOR TO SECURING EXPOSURE DEVICE

IR-192 \_\_\_\_\_ MATHR @ r FROM SURFACE \_\_\_\_\_

CO-60 \_\_\_\_\_ MATHR @ SURFACE OF EXPOSURE DEVICE \_\_\_\_\_

TOTAL EXPOSURE TIME FOR THIS DAY \_\_\_\_\_ HRS \_\_\_\_\_ MINS

PERSONNEL INFORMED \_\_\_\_\_

RADIOGRAPHER \_\_\_\_\_

SERIAL NO. \_\_\_\_\_ CAL DUE DATE \_\_\_\_\_

OF DOSIMETER \_\_\_\_\_ AND \_\_\_\_\_

MR RECORDED START \_\_\_\_\_ FINISH \_\_\_\_\_ MR START \_\_\_\_\_ FINISH \_\_\_\_\_ MR

ALARM RATE \_\_\_\_\_ CAL DUE DATE \_\_\_\_\_ ALARM RATE \_\_\_\_\_ CAL DUE DATE \_\_\_\_\_

METER SN \_\_\_\_\_ METER SN \_\_\_\_\_

FILM BADGE \_\_\_\_\_ AND SERIAL NO. \_\_\_\_\_ AND \_\_\_\_\_

RESULT OF PHYSICAL SURVEY



BARRICADE EQUIPMENT

- SIGNS  HOPE
- CONSTANT SURVEILLANCE

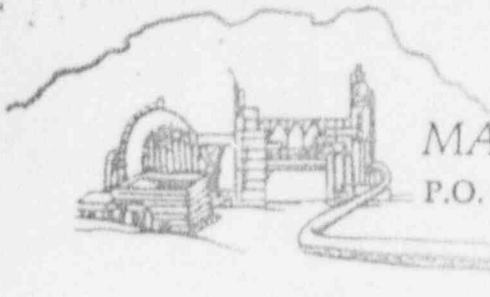
SOURCE TUBE	SOURCE POSITIONER	SOURCE CONNECTOR	SOURCE PROJECTOR		
			ITEM	ACCEPTABLE	CORRECTIVE ACTION TAKEN
			Safety Caps		
			Lock		
			Handle		
			Labels		
			Outlet Nipple & Threads		
			Snug Fit		
			Straightness		
			Excessive Wear		
			Pull Test		
			Handle		
			Gear Box		
			Screws		
			Conduit Connections		
			Cable Flexibility		
			Straightness		
			Physical Damage		
			End Cap		
			Foreign Material		
			Connections		
			Kinks and Crimps		

Remarks \_\_\_\_\_

SURVEY OF TRANSPORTING VEHICLE

Driver's Seal \_\_\_\_\_ Outside Surface \_\_\_\_\_ 18" From Storage Container \_\_\_\_\_

WARNING - INTENTIONAL FAILURE TO RECORD INFORMATION ACCURATELY ON THIS FORM CAN RESULT IN A FINE AND/OR DISCIPLINARY ACTION.



MATTINGLY TESTING SERVICES, INC.

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# TRANSPORTATION CERTIFICATE FOR RADIOACTIVE MATERIALS

Date \_\_\_\_\_ Time \_\_\_\_\_

Destination \_\_\_\_\_

NATURE AND QUANTITY OF CONTENT					PACKAGE			
PROPER SHIPPING NAME	RADIONUCLIDE	CLASS	FORM	ACTIVITY		CATEGORY	TRANSPORT INDEX	TYPE
FOR U.S. SHIPMENTS	NAME OR SYMBOL OR PRINCIPAL RADIOACTIVE CONTENT <sup>ev</sup>		CHEMICAL FORM AND PHYSICAL STATE (GAS/LIQUID/SOLID), OR SPECIAL FORM OR SPECIAL ENCAPSULATION	NUMBER OF CURIES OR GBq's	NUMBER OF PACKAGES	I - WHITE OR II - YELLOW OR III - YELLOW LABEL	FOR YELLOW LABEL CATEGORIES ONLY	INDUSTRIAL OR TYPE A OR TYPE B
RADIOACTIVE MATERIALS, SPECIAL FORM (n.o.s.) IATA Article #2129 <b>R.Q.</b>	IR 192	CLASS 7	SPECIAL FORM			CIRCLE ONE YELLOW <b>II</b> OR YELLOW <b>III</b>	READING AT 1 METER (39 INCHES)  MR/hr	CIRCLE ONE  TYPE A  OR TYPE B

I hereby certify that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, labeled and in proper condition for transportation according to applicable national government regulations.

SIGNATURE \_\_\_\_\_



MATTINGLY TESTING SERVICES, INC.

Name DARIN R HANSON  
Examiner Burt KEH

Date MARCH 15, 1993  
Score 92%

RADIOGRAPHER'S QUESTIONS

1. Name the basic fundamentals of radiation safety. (3)  
Time Distance Shielding
2. What are the three types of rays emitted by IR-192? (2)  
GAMMA ALPHA BETA
3. What is the difference between x-rays and gamma rays of the same energy? (1)
  - a. Wave length.
  - b. Velocity.
  - c. Frequency.
  - d. Origin.
4. The time required for one-half of the atoms in a particular sample of radioactive material to disintegrate is called: (2)

-4 92%

ERIC W. ENGBW  
1/29/93

EXHIBIT J

RADIOGRAPHER'S QUESTIONS

1. Name the basic fundamentals of radiation safety. (3)  
Time, Distance, Shielding
2. What are the three types of rays emitted by IR-192? (2)  
GAMMA, BETA, ALPHA
3. What is the difference between x-rays and gamma rays of the same energy? (1)
  - a. Wave length.
  - b. Velocity.
  - c. Frequency.
  - d. Origin.
4. The time required for one-half of the atoms in a particular sample of radioactive material to disintegrate is called: (2)
  - a. The Inverse Square Law.
  - b. The curie.
  - c. A half life.
  - d. The exposure time.
5. Define a radioisotope. (2)

-1  
98%