

~~CONTAINS INFORMATION PROTECTED
BY THE "PRIVACY ACT"~~
THE STATE UNIVERSITY OF NEW JERSEY

RUTGERS

License No. 29-05218-31
Docket No. 030-22083
MLER RI - 92-127

Rutgers Environmental Health and Safety
Building 4127 • Livingston Campus • P.O. Box 5077 • New Brunswick • New Jersey 08903-5077 • 908/932-2550

October 9, 1992

Mr. Anthony Demitriades
Nuclear Regulatory Commission
475 Allendale Road
King of Prussia, PA 19405

Gentlemen:

RE: Overexposure of ring badge at Rutgers University

On September 17, 1992, Rutgers Environmental Health & Safety (REHS) received a phone call from Landauer Corporation to report an unusually high reading for a ring badge belonging to [] a student of Dr. Robert Niederman (authorization Number

The value for the ring badge exposure for the period April 15, 1992 to July 14, 1992 was 128,960 millirems, far in excess of the yearly permissible limits of 75,000 millirems. The results of the whole body dosimetry for the same period showed nothing above background (minimum M).

During that period, [] only use of radioactivity was during the performance of two iodinations, one on June 16, 1992 and June 29, 1992. The activities of ¹²⁵I used were 1.5 mCi and 5 mCi respectively. In both instances, the radioactive iodine was delivered the same day of the iodination and used immediately. The radioactive waste generated was stored in the hood. No other isotopes were used. The thyroid uptakes performed within 48 hours after each iodination showed no significant trapping in the thyroid (below):

Date	Thyroid Counts	Background	Net
June 17, 1992	239	229	10 <1 nanocurie
July 1, 1992	237	207	30 <3 nanocurie

The same day of September 17, a thorough survey of the laboratory was carried out by the Radiation Safety Officer. Wipes were taken from 25 sites throughout the laboratory, including benches, hoods, desks, refrigerators, etc. A portable scintillation detector was used to check for contamination. A repeat thyroid uptake performed with a portable detector was again normal. [] did not recall any reddening on his fingers or hands.

The results of the survey (see enclosed wipe survey results) showed only two small areas in the hood with very minor contamination (203 and 123 dpm) the largest about twice background.

120044

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RETURN ORIGINAL TO
REGION I

9302170177-021009
RECEIVED
29-05218-31

- 1 -

Portions Ex 7C

B/2
1X16

"CONTAINS INFORMATION PROTECTED
BY THE PRIVACY ACT"

Mr. Anthony Demitriades

October 9, 1992

External exposure to a vial of ^{125}I would yield an exposure rate of 570 mRem/hour at contact per mCi of activity. There is a possibility that the ring badge was left in the hood for at least 70 hours next to the 3 mCi of liquid waste stored in the hood. [redacted] reported that the ring badge was misplaced between July 1 and July 20. The badge was subsequently mailed to REHS. He stated that he wore his whole body badge and ring badge during both iodinations.

Landauer Corporation has indicated there was no evidence of contamination of the ring badge or other anomalies, during a re-analysis of the dosimetry data; however, the possibility of a faulty badge cannot be completely ruled out, but it appears unlikely.

In conclusion, we discount exposure to the individual investigator because (1) the dose indicated by the whole body badge was background (2) there was no trapping of iodine in the thyroid and (3) results of the REHS survey show no surface contamination in the laboratory (with the exceptions in the hood). We feel that the overexposure was probably due to direct exposure of the ring badge along to a source of ^{125}I (vial or waste) and does not reflect a true exposure to [redacted]

We will write to Landauer and direct them to delete this ring badge exposure from [redacted] radiation exposure history. Please notify us if you have any questions or concerns for this action.

Sincerely yours,



Elan Gandsman
Radiation Safety Officer

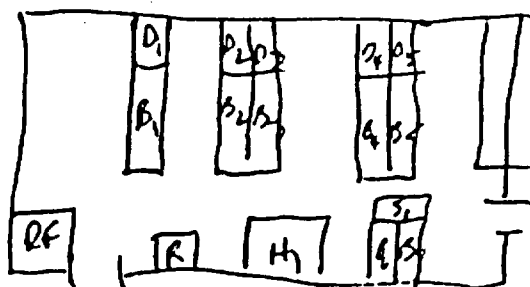
Encs.

[redacted]

7C

Wipe survey of Nelson Biology Room A 319
in response to abnormal Ring Badge Reading

<u>Wipe</u>	<u>Location</u>
1	R/F 1, Freezer door out
2	R/F 1, Freezer compartment in
3	R/F 1, Refrigerator out
4	R/F 1, Refrigerator base in
5	R/F 1, Refrigerator crisper tray in + out
6	Refrigerator out
7	Bench 1
8	Floor Bench 1
9	Bench 2
10	Floor Bench 2
11	Bench 3
12	Floor Bench 3
13	Desk 3 (scale)
14	Bench 4
15	H ₂ O Bath, Bench 3
16	Hood 1 sash & front
17	Hood 1 in, left
18	Hood 1 in, right
19	Floor in front of hood
20	Bench 6
21	Hood 1 in, left side 2x background
22	Sink 1 out, right
23	Sink 1 in, right
24	Sink 1 out, left
25	Sink 1 in, left



Abnormal Ring Badge Result - 9/17/92

COMMENT: test H3 .C14 . OPEN CHANNEL

PARAMETERS	CHANNEL A	CHANNEL B	CHANNEL C
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DESCRIPTION:	HS	CF	OPEN
RANGE:	1 - 1E	1 - 155	1 - 2000
BACKGROUND SUB:	0	0	0
PRESET CNT:	0	0	0
LOW CNT REJ:	0	0	0
SPILL-OVER CORR:	B>A C>A	C>B	
	OFF OFF	OFF	
HLC: HALF-LIFE:	OFF	OFF	OFF
HLC: ASSAY DATE:	06-21-88	06-21-88	06-21-88

BATCH 16 FROM: AMT LAST START TIME: 14 DATE PERFORMING: CONT

DATE: 06-17-92 TIME: 15:20:12

[illegible]
$$^{115}\text{I} \text{ Emissions } \gamma \text{ } 0.035 \text{ MEV (35 KEV)}$$

Assume 60% counting efficiency in channel B

Wipe 21 $OPM = 175 - 53 / 0.6 = 203 \text{ dpm}$ inside hood, 2x background
23 $OPM = 127 - 53 / 0.6 = 123 \text{ dpm}$ inside sink, 1x, right side

THE STATE UNIV OF NJ
RUTGERS/REMS BLDG 4127
LIVINGSTON CAMPUS
ATTN: IHA SCHNEIDER
PISCATAWAY NJ 08854

RADIATION DOSIMETRY REPORT

IN CHARGE	NAME
10721	C93

PAGE FOR NO	IN CHARGE	DATE	NO. OF TDS	NO. OF TDS	NO. OF TDS	NO. OF TDS
R7766A	9-1692	9P992	5	1		

NAME OF CONTACT PERSON
RAM

Landauer

Accredited by the
National Institute of Standards and Technology
through **NVLAP**

Landauer Inc. 2 Science Road, Glenwood, New Jersey 07425-1546
Telephone: (708) 755-7000, Fax: (708) 755-7016

DISKETTE TO FOLLOW THIS REPORT

1 - PR 4962 -

PARTICIPANT ID NUMBER	NAME	SOCIAL SECURITY NUMBER	EXPOSURE TO RADIATION (MILLIREMS) FOR PERIOD(S) INDICATED BELOW	CUMULATIVE TOTALS (MILLIREMS)								SUBSTITUTION RATIO	UNITS PART OF RADIATION DOSE (MILLIREMS)	BIRTH DATE	MO	DA	YR
				CALENDAR QUARTER		YEAR TO DATE		PERMANENT									
				DEEP	SHALLOW	DEEP	SHALLOW	DEEP	SHALLOW	DEEP	SHALLOW						
	FOR EXPOSURE PERIOD 04/15/92		07/14/92	SECOND		1992											
			128960	128960		128960		128960									

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SEE REVERSE SIDE FOR ADDITIONAL EXPLANATIONS

BY THE PRIVACY ACT
"CONTAINS INFORMATION PROTECTED
BY THE PRIVACY ACT"

BY THE PRIVACY ACT
"CONTAINS INFORMATION PROTECTED
BY THE PRIVACY ACT"

LANDAUER

September 25, 1992

The State Univ of Nj
Rutgers/Rehs Bldg 4127
Livingston Campus
Attn Ira Schneider
Piscataway NJ 08854

Re: Account No. 10721

Dear Mr. Schneider,

Confirming our recent telephone conversation, we have rechecked the following badge(s) and find the dose(s) to be correct:

B A D G E No. Type	Exposure Period Begin End	Dose Reported	Energy Range	Additional Notes
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Ex 7c [] 04/15/92 TO 07/15/92 128960MR

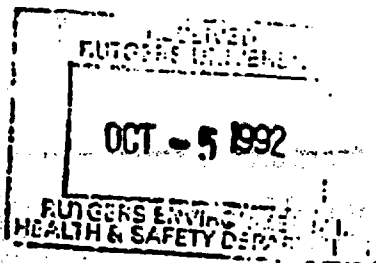
NO EVIDENCE OF
CONTAMINATION OR
OTHER ANOMALIES

Sincerely,

LANDAUER, INC.

Richard O. Knuth

Customer Services - Technical



REGION I
NMSS LICENSEE EVENT REPORT

License No. 29-05218-31

Docket No. 030-22083

MLER-RI 92-127

1. ACTION CONTROL DATA

Licensee Rutgers

Event Description Possible overexposure

Event Date 9.17.92

Report Date 10.9.92

2. REPORTING REQUIREMENT

☐ 10 CFR 20.402 Theft or Loss
☐ 10 CFR 30.50 Immediate/24 Hr.
Notification Report

☐ 10 CFR 35.33 Misadministration
☐ License Condition
☒ 10 CFR 20.405 30 Day Report

☐ Other _____

3. REGION I RESPONSE

☐ Immediate Site Inspection
☐ Special Inspection
☐ Telephone Inquiry
☐ Preliminary Notification
☒ Information entered on the Region I log
☒ Review at next routine inspection
☒ Report referred to T. Dimitriadis / J. Kummerow

Inspector/Date _____
Inspector/Date _____
Inspector/Date _____
☐ Daily Report

4. REPORT EVALUATION

☒ Description of event
☒ Levels of RAM involved
☐ Cause of event

☐ Corrective actions
☐ Calculation adequate
☐ Letter to licensee requesting
additional information

Completed by Lara Wudner Date 10.28.92

Reviewed by E. Ullrich Date _____

5. SPECIAL INSTRUCTIONS OR COMMENTS