

JAN 6 1976

License No. 24-00706-01

Mallinckrodt, Incorporated
Mallinckrodt/Nuclear
ATTN: Mr. Donald W. Soldan
Chief Radiation Safety Officer
Box 10172
Lambert Field
St. Louis, Missouri 63145

Gentlemen:

This will acknowledge receipt of your letter dated August 7, 1975, with enclosure, and also your letter dated August 22, 1975, with enclosure, reporting the exposures of two individuals to radiation during the quarter ending June 29, 1975. The causes of these apparent noncompliance items with a NRC regulation and your actions to preclude a recurrence were reviewed during an inspection conducted on November 10-13, 1975.

Sincerely,

Original signed by

J. G. Davis
John G. Davis, Acting Director
Division of Field Operations
Office of Inspection and
Enforcement

8/1/75
bcc w/cpy ltr dtd 8/22/75:

PDR

NSIC

MF:AEB

MF:MB

B. G. Brooks

E. Boyle

EDO Central Files

Information in this record was deleted
in accordance with the Freedom of Information
Act, exemptions

IE:III

FOIA-	FCB	FCB	DIR:DFO		
OFFICE	TWBrockett/mh	GWRoy	JGDavis		
SURNAME	1/6/76	1/6/76	1/ /76		
DATE					

C/SI

Imp.

FROM

MALLINCKRODT, INC.

DATE OF DOCUMENT

8-22-75

DATE RECEIVED

8-27-75

NO

50683

LTR

MEMO

REPORT

OTHER

TO

IE:HQ (THORNBURG)

ORIG

CC

OTHER

ACTION NECESSARY

☐

CONCURRENCE

☐

DATE ANSWERED

NO ACTION NECESSARY

☐

COMMENT

☐

BY

CLASSIF

POST OFFICE

U

REG NO

FILE CODE

DESCRIPTION (Must Be Unclassified)

REPORTABLE EXPOSURE

REFERRED TO

DATE

RECEIVED BY

DATE

~~WERNICK~~

8/27

Smith

ENCLOSURES

REMARKS

COPY SENT REGION III

U S NUCLEAR REGULATORY COMMISSION

MAIL CONTROL FORM

FORM NRC-101
(1-75)

Mallinckrodt, Inc.

BOX 10172 LAMBERT FIELD • ST LOUIS MISSOURI 63145 • PHONE 314 291-0540

August 22, 1975

Director NRC
Region III
799 Roosevelt Road
Glen Ellyn, Illinois 60137

Reference: U.S. NRC License
No. 24-04206-01

Dear Sir:

Our dosimeter supplier recently reported a TLD reading of 3,250 mRem for the second quarter of 1975. The TLD covered the period 4/4/75 to 6/15/75. Film badges were worn for the weeks 6/16/75 and 6/23/75 for a two week total of 30 mRem. The individual's total exposure was 3,280 mRem for the quarter ending 6/29/75.

His pocket chamber dosimeter records show that most of the exposure was incurred while working in our radioactive waste packaging area from 4/4/75 to 5/25/75. During this period his pocket chamber data totaled 1,717 mRem, not including several non entries. Upon this information, we transferred him to a low exposure job for the duration of the quarter and advised him of the absolute necessity of keeping his pocket chamber record up to date.

The pocket chamber readings for the last 5 weeks of the quarter were 275 mRem for a total of 1,992 mRem.

We believed that we had taken appropriate action to prevent an exposure in excess of the limits specified in 10CFR 20.101 (b). However, the TLD data indicates that this was not the case, and this exposure is being accordingly reported in compliance with Paragraph 20.405.

Sincerely yours,

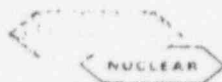
MALLINCKRODT, INC.
MALLINCKRODT/NUCLEAR

Donald W. Soldan
Chief Radiation
Safety Officer

/lm

cc: Dir. of Insp. & Enforcement

Dir., Office Management Inf. & Program Control
Referenced individual



9701280271 2AP

ST. LOUIS.

August 22, 1975

The individual referenced in this report is

[REDACTED]

His Social Security number is [REDACTED] and his date of birth is

[REDACTED]

Ex6

FROM

MILLINCKRODT, INC.

DATE OF DOCUMENT

8-7-75

DATE RECEIVED

15-75

NO

50651

LTR

MEMO

REPORT

OTHER

TO

IE:HQ (THORNBURG)

ORIG

CC

OTHER

ACTION NECESSARY ☐CONCURRENCE ☐

DATE ANSWERED

NO ACTION NECESSARY ☐COMMENT ☐

BY

CLASSIF

POST OFFICE

FILE CODE

U

REG NO:

DESCRIPTION (Must Be Unclassified)

EXPOSURE REPORT

REFERRED TO

DATE

RECEIVED BY

DATE

WARNICK

8/18

ENCLOSURES

Smith

REMARKS

COPY SENT REGION III

U. S. NUCLEAR REGULATORY COMMISSION

MAIL CONTROL FORM

FORM NRC 326
11-75

Mallinckrodt, Inc.

BOX 10172 LAMBERT FIELD • ST LOUIS MISSOURI 63145 • PHONE 314-291-0540

August 7, 1975

Director of Inspection
and Enforcement
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Reference: U.S. NRC License
No. 24-04206-01

Dear Sir:

A Production supervisor received a whole body exposure of 1,965 mRem for the quarter ending June 29, 1975, as determined by the sum of weekly filmbadge reports. This exposure was in reasonable agreement with the sum of daily pocket chamber dosimeter readings taken concurrently. These two methods of dosimetry are used for all radiation workers.

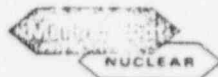
Both radiation workers and non-radiation workers wear identification badges containing TLD chips which are read out on a quarterly basis. The filmbadge results have always been used as our official record of exposure. We have relied upon the TLD readings as the measure of exposure when they are worn exclusively, or for backup in cases where filmbadges are lost, contaminated, damaged, exposed when not worn by the radiation worker, or otherwise show evidence of artifacts.

We recently received the results of the quarterly TLD measurements and in this particular case the reported exposure for the Production supervisor was 3,550 mRem. This is contrary to past results which show the filmbadge and TLD measurements to be in reasonable agreement.

Our dosimeter supplier has re-read the filmbadges and reported that the original readings were valid. However, due to the nature of a TLD system, the TLD cannot be re-read and verified.

We therefore are unable to determine which of the two reported values is most representative of the actual exposure and have decided to substitute the TLD value in the individual's radiation history file.

This technically represents an exposure in excess of the limits specified in 10CFR 20.101(b) and is accordingly being reported in



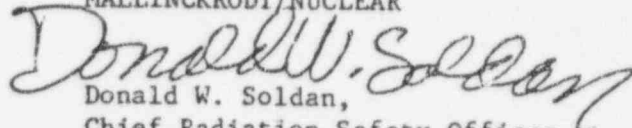
470128-0267 -1P

Page 2
Director of Inspection
and Enforcement
U.S. Nuclear Regulatory Commission
August 7, 1975

compliance with Paragraph 20.405.

Sincerely yours,

MALLINCKRODT, INC.
MALLINCKRODT/NUCLEAR


Donald W. Soldan,
Chief Radiation Safety Officer

DWS/lm
cc: Director NRC
Region III

The individual referenced in this report is

[REDACTED]

Ex 6

His Social Security number is [REDACTED] and his date of birth is

[REDACTED]