

24-04205-01

JAN 18 1972

Mallinckrodt Chemical Works
Mallinckrodt/Nuclear
ATTN: Mr. Donald W. Bolden, Chief
Radiological Protection Officer
Box 10172 Lambert Field
St. Louis, Missouri 63145

Gentlemen:

This will acknowledge receipt of your letter dated January 7, 1972, reporting the exposure on July 2, 1971, of one of your employees to airborne radioactive material. This matter was examined during an inspection on December 6-9, 1971, of your activities under License No. 24-04205-01.

Very truly yours,

Lawrence B. Low, Director
Division of Compliance

bcc: w/encl. copy ltr dtd 1/7/72

PDR

NSIC

SLR

DML:MB ✓

A. Giambusso

C. F. Eason, AWCRR

Incident File

w/o encl.

CO:III

DR Central File

in accordance with the Freedom of Information
Act, exemptions

C/34

FOIA	CO	CO	CO		CO:DIR
OFFICE	TWBrockett:	GWRoy	RHEngelken		LDLow
SURNAME	akb				
DATE	1/17/72				

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24-04206-01

JAN 18 1972

Mallinckrodt Chemical Works
Mallinckrodt/Nuclear
ATTN: Mr. Donald W. Molden, Chief
Radiological Protection Officer
Box 10172 Lambert Field
St. Louis, Missouri 63145

Gentlemen:

This will acknowledge receipt of your letter dated January 7, 1972, reporting the exposure on July 2, 1971, of one of your employees to airborne radioactive material. This matter was examined during an inspection on December 6-9, 1971, of your activities under License No. 24-04206-01.

Very truly yours,

Lawrence D. Low, Director
Division of Compliance

bcc: w/encl. copy ltr dtd 1/7/72

PDR
NSIC
SLR
DML:MB ✓
A. Giambusso
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96-343

FOIA	CO	CO	CO		CO:DIR LDLow
OFFICE ▶	TWBrockett:	GWRoy	RHEngelken		
SURNAME ▶	akb	1/17/72			
DATE ▶					



BOX 10172 LAMBERT FIELD • ST. LOUIS, MISSOURI 63145 • 314 AX 1-0540

NUCLEAR

January 7, 1972

Director, Division of Compliance
U. S. Atomic Energy Commission
Washington, D. C. 20545

Gentlemen:

A production technician incurred an elevated thyroid burden of iodine 131 on July 2, 1971, apparently from water splashed on his face and hair from a contaminated hotsink. His average thyroid burden for that calendar week was 0.05 microcuries. The average of measurements made during the following calendar week was 0.13 microcuries.

We did not believe this exposure to be reportable since all previous reports to the Commission had been based upon measurements made which averaged greater than 0.14 microcuries during a 7 day calendar week.

We were advised during a recent inspection that any 7 consecutive days which yield the highest possible average burden should be chosen as the basis for reporting thyroid exposures to the Commission.

It is on this basis that we are now reporting this particular exposure. Application of this ruling yields an average burden of 0.158 microcuries for the period July 2-8 which is 13% above the permissible burden of 0.14 microcuries.

The calculated exposure to his thyroid for the quarter ending July 2, 1971, the day of the incident, was 1.04 rems. The exposure for the following quarter ending October 1, was 1.76 rems. These exposures compare favorably with the 8 rems permissible exposure recommended by the ICRP.

Director, Division of Compliance
January 7, 1972
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Air concentrations of iodine 131 at station P3, nearby the hotsink, averaged 1.3×10^{-9} microcuries/milliliter for the period June 30 to July 8, 1971. Concentrations at other production department stations were comparable or lower for the same period.

The corrective step taken last July was to have supervisory personnel reinstruct their technicians that, when disposing of small amounts of radioactive materials in a hotsink, liquids should be carefully poured directly down the drain and flushed with water to minimize contamination of the sink.

Sincerely yours,

MALLINCKRODT CHEMICAL WORKS
MALLINCKRODT NUCLEAR

Donald W. Soldan

Donald W. Soldan, Chief
Radiological Protection Officer

DWS:cm

cc: Boyce H. Grier
Director of USAEC
Region III

The individual referred to in this report is:

[REDACTED]
Social Security # [REDACTED]

Date of Birth [REDACTED]

Exemption 6