

Docket No. 30-8985

11/1/79

Isomeric
ATIME
8th South Jefferson Road
Whippany, New Jersey 07981

Dear Sir:

Subject: Exposure of One Individual to a Source of 3 Rads (Your letter of September 20, 1979)

Thank you for your letter referenced above, which forwarded final report pursuant to 10 CFR 20.405 regarding the subject matter.

This matter will be reviewed during our next inspection.

Your cooperation with us is appreciated.

Sincerely,

W. G. McClintock, Chief
Materials Radiological Protection
Section

DCC
IE Mail & ETtes (for Appropriate Distribution)
Central Files
Public Document Room (PDR)
Nuclear Safety Information Center (NSIC)
REG-1 Reading Room
State of New Jersey

FFMS
Glenn pp
11/5/79

FFMS
McClintock
11/6/79



September 20, 1979

Director
Region I Compliance
U. S. Nuclear Regulatory Commission
631 Park Avenue
King of Prussia, Pennsylvania 19406

Dear Sir:

Re: License 29-15364-01

This report, which follows a verbal report to Dr. J. Glenn on September 19, 1979, is submitted in compliance with para. 20.405, Title 10 CFR, and concerns the exposure of an employee to 3140 millirem of cobalt-60 radiation over a three month period. The exposure is as reported from film badge readings supplied by R. S. Landauer Co.

This company has been in the process of attempting to close out a portion of a licensed facility. Contamination levels originally existed in a storage pool, with surface readings at points equal to or greater than one rad/hour. The concrete pool was being chipped to remove contamination. We have received periodic inspections during this period by your staff.

The decontamination effort, from a radiation safety standpoint, has been under the direction of an expert company in this field as specified on the attached. That company began to maintain exposure records in April 1979 on a calendar quarter basis. On their basis, there has not been an overexposure. However, our calendar quarters, as reported on Landauer film badge reports, begin on January 25, April 25, July 25 and October 25, a difference of 25 days. From the standpoint of the Landauer reporting periods, the overexposure is as reported.

It is now clearly understood among ourselves and our contractor that we will adhere to the Landauer quarters.

At this point, chipping of the subject pool is continuing; however, dose rates are now at an average of about 2 - 10 mrad per hour on the wall surfaces of the pool, with two or three "hot spots" of approximately 20 mrad per hour on the pool floor.

Following a meeting on September 11, 1979, with members of the licensing staff, USNRC, Washington, D. C., as well as discussions with our landlord, we have concluded that we have no

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Director
Region I Compliance, USNRC

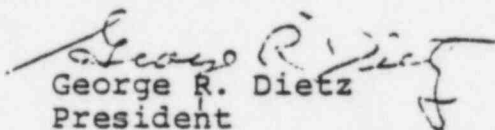
September 20, 1979

-2-

alternative but to continue decontamination efforts to achieve levels for unrestricted release. This will necessarily result in above normal exposures to individuals working on the project. We expect to maintain the strict radiation monitoring and safety standards employed over the past several months, and to minimize exposure levels to individuals wherever possible. The confusion over when the calendar quarter begins is resolved. We are totally disturbed that the excellent progress we have made to date has been marred by such an administrative oversight, and do not expect a repetition of this nature to occur.

Very truly yours,

ISOMEDIX, INC.


George R. Dietz
President

GRD:of
Attachment

cc: Director of Inspection & Enforcement
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

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September 20, 1979

REPORT OF CALENDAR QUARTER OVEREXPOSURE

Name:

Social Security Number:

Date of Birth:

Exposure: 3140 mrem, period April 25 - July 24,
1979, as reported on R. S. Landauer
film badge report.

Decontamination efforts have been under the direction of
Chem-Nuclear Systems, Inc.

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April 9, 1980

Miss Kathy Black
Division of Fuel Cycle and
Material Safety
Office of Nuclear Material
Safety and Safeguards
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Dear Miss Black:

Re: License 29-15364-01

This is to supplement our submission of last March 28 regarding the licensing closeout of a portion of our facilities.

On April 2, at our request, we were inspected by a representative of Region I Compliance. The inspection was limited to confirmation of the closeout surveys which were sent to you.

Numerous readings and smears were taken and evaluated by Region I, resulting in our having to correct three items as follows:

1. Smear in area N126 read approximately 1200 dpm. This area has been recleaned, and current smears are reading less than 500 dpm.
2. Within a fenced area outside of the building, soil readings in two spots were above release criteria (Area EP). The contaminated soil was removed, and current readings now range from .07 to .20 mr/hr.
3. A small exhaust fan in Area R smeared above release criteria. The fan was removed and cleaned, and now shows removable or smear readings of less than 500 dpm and fixed contamination readings ranging from .07 to .19 mr/hr.

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Miss Kathy Black
U. S. Nuclear Regulatory Commission

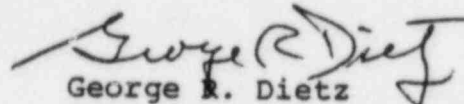
April 9, 1980

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The enclosed floor plan was inadvertently omitted from the March 28 submission. This is the area we would like released for unrestricted use.

Very truly yours,

ISOMEDIX, INC.


George R. Dietz
President

GRD:of
Enclosure

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August 2, 1984

Dr. John Glenn
Region I
U.S. Nuclear Regulatory Commission
631 Park Avenue
King of Prussia, PA 19406

Dear Dr. Glenn:

RE: License 29-15364-01
Parsippany, NJ

My letter of July 31, 1984, requested an amendment to the subject license, and also enclosed the appropriate fee.

In the same amendment, we would also like to amend Item 7 of our original submission (Radiation Protection Officer) as follows:

Delete:

Add:

radiation-related resume is enclosed.

Very truly yours,
ISOMEDIX INC.

George R. Dietz
George R. Dietz
Executive Vice President

Applicant.....
Check No. 15557.....
Amount/Fee Category 230-36.....
Type of Fee... Am.D.....
Date Check Rec'd. 8/5/84.....
Received By... sac.....

RECEIVED BY LFMB

GRD:sac
Enclosure

Date 8/9/84
Reg. Aug 7-1
3y. sac
Orig. To
Action Compl. 8/10/84

8409250016-840907
NMS LIC30
29-15364-01 PDR

ISOMEDIX INC.

02732
"OFFICIAL RECORD COPY"

MLIO

AUG 07 1984

APPLICATION FOR RADIOACTIVE
MATERIAL LICENSE - ITEMS 8 and 9

8. TYPE OF TRAINING	WHERE TRAINED	DURATION OF TRAINING	ON THE JOB	FORMAL COURSE
a. Principles and practices of radiation protection.	Isomedix	6 months	8 yrs.	Yes
b. Radioactive measurement standardization and monitoring techniques, and instrumentation.	Isomedix	6 months	8 yrs.	Yes
c. Math and calculations basic to the use and measurement of radio-activity.	Isomedix	6 months	8 yrs.	Yes
d. Biological effects of radiation.	Isomedix	6 months	7 mos.	Yes

9. EXPERIENCE WITH RADIATION

Isotope	Max. Amount	Where Experience Was Gained	Duration	Type of Use
Co-60	1,500,000 ci	Isomedix Inc. Production Mgr. and OJT	3 Years	General processing, e.g., sterilization
Co-60	200,000 ci	Isomedix	1½ Years	Hot Cell Operations
Co-60	3,000,000 ci	Isomedix (South Carolina)	6 Years	General Processing

received on-the-job training in the use of shielding and time-distance relations in reducing radiation exposure; the use, maintenance and limitations of monitoring and surveying instruments; and protective, routine, and emergency procedures in effect at the New Jersey facility. The on-the-job training was correlated with a formal course given by Contents of this training program are outlined elsewhere.

was a licensed operator of the 1.5 million curie Parsippany unit for 3 years, and a licensed operator for our Hot Cell Irradiators for nearly 2 years.

was transferred to our South Carolina facility (a large, totally automated, AECL medical products irradiator) where, as he was also a licensed operator. From February 1982, until July 1, 1984, at that facility, being licensed as such by the State of South Carolina. He was also a in this plant for 6 years, until his transfer to New Jersey as for both the Whippany and Parsippany irradiators.

joined Isomedix in 1976.

Formal Education - High School Graduate - 1972
College - 3 years