

SEP 12 1974

Memo to file

ISOMEDIX, INC.

BY-PRODUCT LICENSE NO. 79-15364-01

SUPPLEMENT TO 8/27/74 MEMO TO FILE

Landsauer's report of their TLD exposures is attached. The only sets of Landsauer's and EHL's TLD's exposed under identical conditions are:

Scintimeter Number and Result

EHL      TLD

#3 - 2515R

#4 - 2385R

Landsauer

#1 - 3079R

#2 - 3293R

When the data is reduced, the following comparison can be made:

<u>Distance from Source,</u> <u>inches</u>	<u>Exposure Rate, R/sec.</u> <u>Isomodix</u>	<u>EHL</u>	<u>Landsauer</u>
36"	42	54	70

Diets has informed us that Isomodix will perform another exposure calibration using the Red Perplex system.

The data cannot be considered <sup>con</sup>clusive. On face value, however, the above data suggests the actual exposure rates were somewhat higher than first believed. This, coupled with a slightly longer estimate of time spent in the cell, could reconcile the exposure estimates based upon these data with those suggested by the biomedical data.

Joel Lubenau  
Radiation Specialist

CRESS *JOE 9/10/74*  
Lubenau/mjd  
9/10/74

*McClintock*  
9/11/74

*W. J. Simon*  
9/11

*Landauer*

*Joel Lubin*

GLENWOOD SCIENCE PARK, GLENWOOD, ILLINOIS 60425, (312) 755-7000

*file*

August 26, 1974

George R. Dietz, Manager  
Radiation Services  
Isomedix, Inc.  
25 Eastmans Road  
Parsippany, New Jersey 07054

Dear Mr. Dietz:

We have processed the film and solid state dosimeters dated August 7, 1974 and referred to in your letter to Mr. Joel Lubinauer (USAEC).

All of the film was exposed to radiation levels in excess of it's useful range. As a result, no information was available from that portion of the test.

The results for the solid state dosimeters (TLD) are as follows:

DOSIMETER #	EXPOSURE
1001	3079R
1002	3293R
1003	2378R
1004	-
1005	2621R
1006	2835R
1007	2652R
1008	2896R
1009	2317R
1010	2268R

The packet containing the dosimeters for set #1004 was cut open and the dosimeters were missing, therefore no information can be reported for that number.

Sincerely,

R. S. LANDAUER, JR. & CO.  
DIVISION OF TECHNICAL OPERATIONS

*[Signature]*  
Robert V. Wheeler  
Assistant Managing Director

RVW/kh