



PITTSBURGH

1344 Fifth Avenue
Pittsburgh, PA 15219
(412) 261-9100

CHICAGO

2500 New York Avenue
Suite 1-113
Whiting, IN 46394
(219) 859-1223

CLEVELAND

Western Reserve Building
1468 West Ninth Street
Suite 310
Cleveland, OH 44113
(216) 861-1183

March 26, 1985

Mr. John D. Kinneman, Chief
Nuclear Materials Section A
United States Nuclear Regulatory
Commission; Region 1
631 Park Avenue
King of Prussia, PA 19406

Subject: Response to Notice of Violation
Inspection No. 85-01
License No. 37-21314-01

Dear Mr. Kinneman:

As requested in your letter dated March 7, 1985 regarding Inspection No. 85-01 at our offices, please be notified of the following response to your Appendix A "Notice of Violation".

- A. Tests of Sealed Sources per Condition 13 of License No. 37-21314-01 for our Troxler Model 3411B (S/N 9494) Surface Moisture Density Gauge.

This violation has been corrected as follows:

1. A leak test was performed on February 4, 1985 and zero (0) activity was measured. A copy of the certification is enclosed.
2. Arrangements have been made to have the tests performed at intervals not to exceed six months to avoid further violations.
3. Full compliance has been achieved.

- B. 10 CFR 20.401(a) requirement that each licensee maintain records showing radiation exposures.

This violation is being corrected as follows:

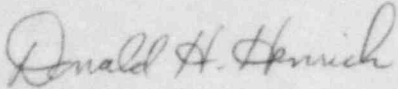
1. A contract has been arranged with R.S. Landauer, Jr. & Co. for the purchase and testing of dosimeters. A copy of the invoice is enclosed.
2. Dosimeters will be tested monthly and records kept to avoid further violations.
3. Full compliance will be achieved when the records of our April 5, 1985 tests are obtained (approximately mid-April).

8506030096 850514
REQ1 LIC30 PDR
37-21314-01

Mr. John D. Kinneman
March 22, 1985
Page Two

Should you have any questions in this matter or require additional information, please contact my office.

Sincerely yours,

A handwritten signature in cursive script that reads "Donald H. Henrich". The signature is written in dark ink and is positioned above the printed name and title.

Donald H. Henrich
President

sjd
Enclosure

Radionuclide: CS137
AM241BE*
Source Serial: 40-6940 47-0125*
Inst. Model: 3411-B
Inst. Serial: 9494
Date of Wipe: 1-25-85
Individual's Name: G. BANNER
Telephone: (412)-261-9100

PLEASE TYPE OR PRINT LEGIBLY -
THIS IS YOUR RETURN ADDRESS LABEL

- GREG W. BANNER
- C/O ORBITAL ENGR. INC.
- 1344 5th AVE
- PAH., PA. 15218

Leak Test Analysis

Removable Activity	
Beta Gamma	Alpha
<u>0</u> μCi	<u>0</u> μCi
<u>Martine Byrd</u> Certification	
Date: <u>2-4-85</u>	

NOTES

1. Follow procedures as defined in your leak test kit instructions.
2. Fill out this form and the bag label with required information where applicable. Seal the filter paper in the plastic bag. Place the plastic bag and this form in the pre-addressed envelope.
3. Removable activity will be reported in μCi . A value of "0" indicates less than .00005 μCi .
4. Federal and state regulations require that sealed sources be removed from service and reports filed if removable activity is greater than .005 μCi .
5. Due to the potential hazard, Troxler recommends that an additional wipe be made if removable activity exceeds .0005 μCi .
6. You will be notified by telephone collect if the test yields greater than .001 μCi removable activity.

ORIGINAL

R. S. Landauer, Jr. & Co.
Division of Tech/Ops, Inc.

ORIGINAL INVOICE

D-U-N-S 04-791-8214

FEDERAL ID NUMBER 04-2140288

Tech/Ops

Landauer

2 Science Road
Glenwood, Illinois 60425-1586
Telephone (312) 755-7000

TERMS: NET 30 DAYS
A FINANCE CHARGE OF 1 1/2% PER MONTH, WHICH IS
AN ANNUAL PERCENTAGE RATE OF 18% MAY BE
ADDED TO ALL PAST DUE ACCOUNTS.

*DOSIMETER TYPE (ALPHA CODE)
A: X GAMMA, BETA, FAST NEUTRON (NEUTRAK 0
S: X GAMMA, BETA, FAST NEUTRON (NEUTRAK 144)
C: X GAMMA, BETA, FAST (NEUTRAK 144)
& THERMAL NEUTRON
D: REACTOR TLD
E: NEUTRAK 1
F: REACTOR TLD, FAST NEUTRON (NEUTRAK 144)
G: X GAMMA, BETA
H: X GAMMA, BETA, FAST (NTA FILM,
& THERMAL NEUTRON
I: NEUTRAK E, S

J: X GAMMA, BETA, FAST (NEUTRAK 0,
& THERMAL NEUTRON
K: TLD (3 CHIPS)
L: TLD (4 CHIPS)
M: TLD (2 CHIPS) FAST NEUTRON (NEUTRAK 144)
N: FAST NEUTRON (NEUTRAK 144)
O: TLD (1 CHIP) FAST NEUTRON (NEUTRAK 0
P: X GAMMA, BETA, FAST NEUTRON (NTA FILM,
& THERMAL NEUTRON
Q: DEX-RAY

R: X GAMMA, BETA, NEUTRON (NEUTRAK E, R)
S: X GAMMA, BETA, NEUTRON (NEUTRAK E, R, & TLD)
T: TLD (2 CHIPS)
U: TLD (1 CHIP) RING
V: ALBEDO
W: ESCORT TLD
X: SPECIAL TLD
Y: X GAMMA, BETA, THERMAL NEUTRON
Z: TLD (3 CHIPS) FAST NEUTRON (NEUTRAK 144)

(NUMERIC CODE)
1-BODY
3-RIGHT FINGER (RING)
4-LEFT FINGER (RING)
5-RIGHT WRIST
6-LEFT WRIST
7-OTHER EXTREMITY
8-OTHER TOTAL BODY
9-MONITOR

BILLING ADDRESS

ORBITAL ENGINEERING INC
ATTN GREG BANNER
1344 5TH AVE
PITTSBURGH PA 15219

ACCOUNT NO.

84624-23-1

INVOICE DATE

3/04/85

VENDOR NO.

SHIPPED TO

ORBITAL ENGINEERING INC
ATTN GREG BANNER
1344 5TH AVE
PITTSBURGH PA 15219

CUSTOMER ORDER NO.	EXPIRATION DATE	FOR LANDAUER USE ONLY			PRICE	NO. OF INV. COPIES	INVOICE NUMBER
		BF	BC	DIB			
	AUTORE	A	23		L	2	956306

Q	DOSI-METER TYPE	SERIES CODE	NUMBER FURNISHED	DATE	DESCRIPTION OF CHARGE	UNIT PRICE	EXTENDED
J	G1		4		12 SHIPMENTS	2.20	105.60
J			4	3/05/85	SET UP CHARGES	1.00	4.00
SUB-TOTAL							109.60
TOTAL							109.60
THIS INVOICE COVERS YOUR ADVANCE BILLING FOR ROUTINE SERVICES COMMENCING 3/05/85							

WE HEREBY CERTIFY THAT THESE GOODS OR SERVICES WERE PRODUCED IN COMPLIANCE WITH THE FAIR LABOR STANDARDS ACT, AS AMENDED.

EXPLANATION

(1) ADVANCE CHARGES FOR THE NEXT EQUIVALENT PERIOD OF SERVICE ARE PROJECTED ON THE BASIS OF THE SERVICES ACTUALLY PERFORMED ON THE INCLUSIVE DATES SHOWN IN THE BODY OF THE INVOICE. THIS PROJECTED AMOUNT IS DUE IN ADVANCE IN ACCORDANCE WITH OUR STANDARD TERMS.

(2) THIS IS AN ORIGINAL INVOICE. IT IS NOT A STATEMENT, AND DOES NOT REFLECT ANY BALANCES DUE FROM PREVIOUS INVOICES.

ACTUAL SERVICES RENDERED.

LESS ADVANCE BILLING, INVOICE

BALANCE

PLUS, NEW ADVANCE CHARGE FOR NEXT PERIOD (1)

PLEASE RETURN REMITTANCE COPY WITH PAYMENT

DATED

109.60

AMOUNT DUE THIS INVOICE (2)

NET AMOUNT DUE

109.60