

Metorex

37-28461-01
License No. 37-28461-02G
Docket No. 030-31437
030-31454
MLER-RI - 97-19

May 1, 1997

United States Nuclear Regulatory Commission
Region I
Licensing Assistance Section
475 Allendale Road
King of Prussia, PA 19406

Re.: Report of positive leak test obtained on source destined for disposal.
Licenses: 37-28461-01, 37-28461-02G

On April 22, 1997 we have been informed that one of the wipe tests submitted for analysis turned out positive, yielding 0.264 microcuries. The source was Fe-55, made by Amersham Corporation. Source NRC Model Number is IEC.A1, Manufacturer's Code IEC.620. Its current activity is estimated at about 10 mCi. The source was taken out from the customer probe, Metorex Model LEPS, for disposal. From the time the source was removed from the instrument it was stored individually in a small, sealed lead pig, pending the result of the wipe test.

We have notified Amersham's RSO, Mr. John Graziadei about the incident. We have informed NRC Region I about the incident on April 23, 1997, by calling at 10:30am Mr. Jack McFadden.

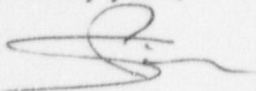
On April 29 we received from Amersham Type A container (steel drum) with proper packing and shipping documentation. Today, on May 1, 1997, the source has been placed in the container provided, sealed and shipped via FedEx to Amersham, attention Mr. Graziadei.

The incident did not result in spread of contamination. We have discussed the incident with our staff and stressed the importance of holding the Fe-55 sources in individual pigs until the wipe test results are received. It has been our internal policy in reference to Fe-55 isotopes, Model IEC.A1, to hold them separately pending the wipe test results.

Enclosed are copies of shipping documentation as well as the copy of the wipe test for the subject source.

Should any additional information be necessary, please contact me at 609-406-9000, ext. 105.

Sincerely yours,



Stanislaw Piorek, Ph.D.
Radiation Safety Officer

cc: J. Loftus, President
files

9706090140 970501
PDR ADOCK 03031437
C PDR

TURN ORIGINAL TO
REGION I

IE12

METOREX INC.

Princeton Crossroads Corporate Center
P. O. Box 3540
Princeton, New Jersey 08543-3540

Telephone
1-609-406-9000

Telefax
1-609-530-9055

MAY - 2 1997

Service Conditions, Declared Value, and Limit of Liability - By using this Airbill, you agree to the service conditions in our current Service Guide or U.S. Government Service Guide. Both are available on request. SEE BACK OF SENDER'S COPY OF THIS AIRBILL FOR INFORMATION AND ADDITIONAL TERMS. We will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, or delay, non-delivery, misrouting, or misinformation, unless you declare a higher value, pay an additional charge, and document your actual loss in a timely manner. Your right to recover from us for any loss includes intrinsic value of the package, loss of sales, interest, profit, attorney's fees, costs, and other forms of damage, whether direct, incidental, consequential, or special, and is limited to the greater of \$100 or the declared value but cannot exceed actual documented loss. The maximum declared value for any FedEx Letter and FedEx Pak is \$500. Federal Express may, upon request, and with some limitations, refund all transportation charges paid.

See the FedEx Rate Guide for further details.

Questions? Call 1-800-Go-FedEx (1-800-463-3339)

5 Packaging

☒ Other Packaging

Dangerous Goods cannot be shipped in FedEx packaging.

6 Special Handling

☐ Dangerous Goods as per attached Shipper's Declaration

☒ Dangerous Goods Shipper's Declaration not required

☒ Cargo Aircraft Only

☐ Dry Ice

Dry Ice, 8 UN 1845 III, kg 904
(Dangerous Goods Shipper's Declaration not required)

7 Payment

Bill to: ☒ Sender

☐ Recipient

☐ Third Party

☐ Credit Card

☐ Cash/Check

(Enter FedEx account no. or Credit Card no. below)

FedEx Account No. 1366-7755-1

Credit Card No.

Exp. Date

Total Packages 1

Total Weight 5 lb.

Total Declared Value \$ 00

Total Charges \$

When declaring a value higher than \$100 per shipment, you pay an additional charge. See SERVICE CONDITIONS, DECLARED VALUE AND LIMIT OF LIABILITY section for further information.

Signature Release Unavailable

Rev. Date 5/96
PART #146230
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241

SRC 96

TRACKING NUMBER

2987249381

Page 1 of 1 Pages

Two completed and signed copies of this Declaration must be handed to the operator.

WARNING

Failure to comply in all respects with the applicable Dangerous Goods Regulations may be in breach of the applicable law, subject to legal penalties. This Declaration must not, in any circumstances, be completed and/or signed by a consolidator, a forwarder or an IATA cargo agent.

Shipment type: (delete non-applicable)

☒ NON-RADIOACTIVE ☐ RADIOACTIVE

NATURE AND QUANTITY OF DANGEROUS GOODS

Dangerous Goods Identification

Proper Shipping Name	Class or Division	UN or ID No.	Packing Group	Subsidiary Risk	Quantity and type of packing	Packing Inst.	Authorization
Radioactive Material I.O.S.	7	2982			Iron 55, 10mCi (0.4GBq) Solid as a metal in one Type A package (steel drum)	white I Ti=0 Dim: Diam. 28cm ht. 37cm	

Additional Handling Information

Emergency phones: 609-406-9000 ext 105 or 1-800-584-9333

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked, and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Emergency Telephone Number (Required for US Origin or Destination Shipments)

See above

Name/Title of Signatory
Place and Date
Signature (see warning above)

5/1/97

ACCEPTABLE FOR PASSENGER AIRCRAFT, THIS SHIPMENT CONTAINS RADIOACTIVE MATERIAL INTENDED FOR USE IN, OR INCIDENT TO, RESEARCH, MEDICAL DIAGNOSIS, OR TREATMENT.

TO: Mr. John Graziadei/SCR 1094
Amersham Corp.
2636 South Clearbrook Drive
Arlington Heights, IL 60005
(800)323-6695

DATE — 5/1/97
YOUR REF. NO. — 23-6070
INVOICE NO. —
PACKING LIST —
SHIPPING DATE — 5/1/97
F.O.B. POINT — Ewing, NJ
CARRIER — Federal Express
TERMS — 2987249381
OUR REF. NO. — 23-6070

ITEM	QUANTITY	DESCRIPTION	UNIT PRICE	TOTAL PRICE
1	1	<p>Radioactive Material N.O.S. Class/Division 7 UN 2982 Iron 55, 10mCi (0.4GBq) s/n 5557LG Solid on a metal in one Type A package (Steel drum)</p> <p>Packing Inst. White I TI=Ø Din: diam, 28cm height. 37 cm.</p>		

By: 

METOREX INC.

Street address
860 Town Center Drive
Langhorne, PA 19047

Telephone
1-215-741-4482

Telefax
1-215-741-6385

Monitoring Services

P.O. BOX 580648 • HOUSTON, TEXAS 77256-0648 • AREA CODE 713/641-0391 • FAX 713/641-6153

SEALED SOURCE LEAK TEST CERTIFICATE

NETOREX
P.O. BOX 3540
PRINCETON, NJ 08543-3540
ATTN OF: GARY E. JOHNSON

C FILE 1991

S FILE 27366

N FILE 1496

INVOICE NO. _____ DATE _____

RADIONUCLIDE FE-55

ACTIVITY 40 MCI CI SERIAL NO. 5557LG

WIPE DATE 041097 WIPED BY _____

EFF. .052

GROSS CPM 382412 BKG. CPM 19 NET CPM 382393

NET CPM _____ = MICROCURIE

EFFX2 22X10⁶ DPM/ μ CI

THE ABOVE SOURCE WIPE TEST HAS BEEN ASSAYED IN ACCORDANCE WITH OUR RADIOACTIVE MATERIAL LICENSE AND THE APPROPRIATE REGULATORY REQUIREMENTS. THE REGULATIONS DEFINE A LEAKING SOURCE AS ONE FROM WHICH AN APPROPRIATE WIPE TEST HAS REMOVED 0.005 MICROCURIE OR MORE OF ACTIVITY.

THE REMOVABLE ACTIVITY WAS 2.64E-01 MICROCURIE

ASSAY NO. 041997 5 DATE 04-19-19.97

ASSAYED BY *Paul H. Hylleberg*

REGIONAL DUTY OFFICER LOG

1030 hrs.
 Date: 04-23-97 Duty Officer J McFadden
 Facility: Metorex 29-30342-01 Stan Piorek RS
29-30342-02G 609/406-9800
 Event Classification (Circle One) X105

General Emergency / Site Area Emergency / Alert / Unusual Event /

1-Hr Non-Emergency 10 CFR 50.72(b)(1) / 4-Hr Non-Emergency 10 CFR 50.72(b)(2)

Physical Security (73.71) / Transportation / 20.2202 Material-Exposure /

Other(Specify) Leaking Fe-55 source

Event No.: _____ Event Time: _____ Current Power or Mode: _____

Notification Time: _____ Resident Notified: Yes/No State/Local Notified: Yes/No

Subject: _____

Event Notification Description and Time Received

- Received a returned instrument for source replacement approx. 1 week ago. Wipe test of source (Amersham M#IEC.6 20 mCi at 3 yrs ago, HL = 2.7 yrs) sent to Houston (Monitoring Services), and result (0.264 μ Ci) received yesterday.
- X-Met model 820 (Instrument) contains LEPS probe (Reg. # NR-701-D-101B)
- Amersham (John Graziadei 800/323-6695) was contacted by S. Piorek.

Regional Manager Contacted: _____ Time: _____

REGION I
NMSS LICENSEE EVENT REPORT

License No. 37-28461-01
37-28461-02G
Docket No. 030-31437
030-31454
MLER-RI 97-19

LICENSEE metorex

EVENT DESCRIPTION Leaking Fe-55 source

EVENT DATE 4/22/97

REPORT DATE 5/1/97

1. REPORTING REQUIREMENT

- () 10 CFR 20.2201 Theft or Loss
() 10 CFR 20.2203 30 Day Report
() 10 CFR 30.50 Report
() 10 CFR 35.33 Misadministration
(☒) License Condition
() Other _____

2. REGION I RESPONSE

- () Immediate Site Inspection Inspector/Date _____
() Special Inspection Inspector/Date _____
() Telephone Inquiry Inspector/Date _____
() Preliminary Notification
(☒) Information Entered on the Region I Log
(☒) Review at Next Routine Inspection
() Report Referred to _____
() Daily Report

3. REPORT EVALUATION

- (☒) Description of Event
(☒) Levels of RAM Involved
() Cause of Event
(☒) Corrective Actions
() Calculation Adequate
() Letter to Licensee Requesting Additional Information

4. SPECIAL INSTRUCTIONS OR COMMENTS

Completed by Judith A. Joubert

Date 5/5/97

Reviewed by James J. Joubert

Date 5/14/97

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(Revised 1/6/95)

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