

FILE COPY

JUN 19 1985

Bio-Dynamics  
ATTN: Iva Sue Smith  
Manager, Regulatory Affairs  
9115 Hague Road  
P.O. Box 50100  
Indianapolis, IN 46250

Gentlemen:

Enclosed are amendments terminating License Numbers 13-17999-03, 13-17999-04G and 13-17999-05E. If you have any questions do not hesitate to call us at (312) 790-5625.

Sincerely,


Original Signed By  
Evelyn R. Matson  
Materials Licensing Section

Enclosures:

1. Amendment No. 09
2. Amendment No. 04
3. Amendment No. 01

8507120557 850619  
REG3 LIC30  
12-17999-03 PDR

RIII

  
Matson/cm  
05/22/85

## CONVERSATION RECORD

TIME

11 Am

DATE

6/18/85

control no 78899

TYPE

☐ VISIT☐ CONFERENCE☒ TELEPHONE☐ INCOMING☒ OUTGOING

Location of Visit/Conference:

NAME OF PERSON(S) CONTACTED OR IN CONTACT WITH YOU

ORGANIZATION (Office, dept., bureau, etc.)

TELEPHONE NO.

Iva Sue Smith

13-17999-03

317-  
845-2386

SUBJECT

Termination of license Nos 13-17999-03  
and - 04E

ROUTING

NAME/SYMBOL

INT

SUMMARY

Ms. Smith stated all inventory of the I-129 source and I-125 kits were disposed of. She did state however, that they have kept 15 I-129 exempt sources for their own use in calibrating and servicing instruments. These sources were authorized to be distributed to exempt person under their license no 13-17999-05E. Ms. Smith stated the sources are not to be distributed & for the company's use only. They have essentially distributed them to themselves.

ACTION REQUIRED

Ok to terminate licenses &amp; sign per Bruce Mallett

NAME OF PERSON DOCUMENTING CONVERSATION

SIGNATURE

DATE

Edlyn Mator

6/19/85

ACTION TAKEN

SIGNATURE

TITLE

DATE

# CONVERSATION RECORD

TIME

11:14

DATE

6/10/85

U/N 78899

TYPE

☐ VISIT

☐ CONFERENCE

☒ TELEPHONE

☐ INCOMING

☒ OUTGOING

ROUTING

NAME/SYMBOL INT

Location of Visit/Conference:

NAME OF PERSON(S) CONTACTED OR IN CONTACT WITH YOU

ORGANIZATION (Office, dept., bureau, etc.)

TELEPHONE NO.

Eva Sue Smith

Boehringer

317-845-2386

SUBJECT

Request to terminate license Nos.

13-17977-04G + 13-17979-03

SUMMARY

Are any I-129 sealed sources or I-125 kits still in the field at temporary job sites?

ACTION REQUIRED

NAME OF PERSON DOCUMENTING CONVERSATION

SIGNATURE

DATE

Evelyn Matom

6/10

ACTION TAKEN

SIGNATURE

TITLE

DATE



**Boehringer Mannheim Diagnostics, Inc.**

Bio-Dynamics   Boehringer Mannheim Diagnostics   Boehringer Mannheim Biochemicals

2 May 1985

United States Nuclear Regulatory Commission  
Mr. George M. McCann  
Materials Licensing  
Region III  
799 Roosevelt Road  
Glen Ellyn, Illinois 60137

Re:   Boehringer Mannheim Corporation Release of Facility.

Dear Mr. McCann:

Pursuant to our discussion,   Boehringer Mannheim Corporation is requesting termination of the following NRC licenses:   13-17999-03, 13-17999-04G and 13-17999-05E.

Enclosed please find copies of the Wipe Tests performed by Quality Assurance, survey performed by Mr. Mack L. Richard, M.S. Health Physicist, (2) Certificates of Disposition of Materials and disposal documentation by Adco Services, Inc. If you should have any questions, please call me (317) 845-2386.

Thank you for your assistance in this matter.

Sincerely,

*Iva Sue Smith*  
Iva Sue Smith  
Manager  
Regulatory Affairs

ISS:reg

cc:   D. Dunn  
      G. Evanega

RECEIVED BY LFMB	
Date	5/13/85
Log	May 13
By	AB
Orig. To	RTH
Action Compl.	AB

RECEIVED  
MAY 08 1985  
REGION III

*cc: Dunn*  
**FEE EXEMPT**

**CONTROL NO. 78899**



**MAY 8 1985**

CERTIFICATE OF DISPOSITION OF MATERIALS

(All items MUST be completed, please print)

LICENSEE NAME AND ADDRESS

Boehringer Mannheim Diagnostics, Inc.  
9115 HAGUE ROAD  
INDIANAPOLIS, INDIANA 46250

LICENSE NUMBER

13-17999-03

13-17999-04G

LICENSE EXPIRATION DATE

MAY 31, 1985

THE LICENSEE OR ANY INDIVIDUAL EXECUTING THIS CERTIFICATE ON BEHALF OF THE LICENSEE CERTIFIES THAT: (Check and/or complete the appropriate item(s) below.)

A. MATERIALS DATA (Check one and complete, as necessary)

- ☐ 1. NO MATERIALS HAVE EVER BEEN POSSESSED OR PROCURED BY THE LICENSEE UNDER THIS LICENSE.
- OR
- ☐ 2. ALL MATERIALS PROCURED AND/OR POSSESSED BY THE LICENSEE UNDER THE LICENSE NUMBER CITED ABOVE HAVE BEEN TRANSFERRED ON

DATE

TO

WHICH HAS NRC LICENSE NUMBER

OR

- ☐ 3. ALL MATERIALS PROCURED AND/OR POSSESSED BY THE LICENSEE UNDER THE LICENSE NUMBER CITED ABOVE HAVE BEEN TRANSFERRED ON

DATE

TO

WHICH HAS LICENSE NUMBER

ISSUED BY THE STATE OF

AN AGREEMENT STATE PURSUANT TO SECTION 274 OF THE ATOMIC ENERGY ACT OF 1954, AS AMENDED, AND THE ENERGY REORGANIZATION ACT OF 1974.

OR

- ☒ 4. MATERIALS HAVE BEEN DISPOSED OF IN THE FOLLOWING MANNER. (Describe specific disposal procedures—if additional space is needed, use the reverse of this form, or provide attachments)

RADIOACTIVE WASTE SHIPMENT WAS MADE TO  
ADCO SERVICES, INC. 4/26/85. SEE ATTACHED  
DOCUMENTATION.

B. OTHER DATA

- ☒ 1. OUR LICENSE HAS NOT YET EXPIRED; PLEASE TERMINATE IT.
- ☒ 2. WAS A RADIATION SURVEY CONDUCTED TO CONFIRM THE ABSENCE OF LICENSED RADIOACTIVE MATERIALS AND TO DETERMINE WHETHER ANY CONTAMINATION REMAINS ON THE PREMISES COVERED BY THE LICENSE? (Check one)
- ☐ NO
- ☒ YES, THE RESULTS (Check one)
- ☒ ARE ATTACHED, OR
- ☐ WERE FORWARDED TO NRC ON (Date)

3. THE PERSON TO BE CONTACTED REGARDING THE INFORMATION PROVIDED ON THIS FORM

NAME

IUA SUE SMITH

TELEPHONE NUMBER

317-845-2386

4. MAIL ALL FUTURE CORRESPONDENCE REGARDING THIS LICENSE TO

9115 HAGUE ROAD INDIANAPOLIS, IND. 46250

RETURN TO:

8507120523

DIRECTOR, DIVISION OF FUEL CYCLE AND MATERIAL SAFETY  
OFFICE OF NUCLEAR MATERIAL SAFETY AND SAFEGUARDS  
U.S. NUCLEAR REGULATORY COMMISSION  
WASHINGTON, DC 20555

CERTIFYING OFFICIAL

SIGNATURE

IUA SUE SMITH  
IUA SUE SMITH

PRINTED NAME AND TITLE

mgr. Regulatory Affairs

DATE

4/30/85

(11-82)  
10 CFR 30.36(d)(1)(iv)  
10 CFR 40.42(d)(1)(iv)  
10 CFR 70.38(d)(1)(iv)

# CERTIFICATE OF DISPOSITION OF MATERIALS

(All items MUST be completed, please print)

LICENSEE NAME AND ADDRESS

Boehringer Mannheim Diagnostics, Inc.  
9115 HAGUE ROAD  
INDIANAPOLIS, INDIANA 46250

LICENSE NUMBER

13-17999-05E

LICENSE EXPIRATION DATE

MAY 31, 1987

THE LICENSEE OR ANY INDIVIDUAL EXECUTING THIS CERTIFICATE ON BEHALF OF THE LICENSEE CERTIFIES THAT: (Check and/or complete the appropriate item(s) below.)

## A. MATERIALS DATA (Check one and complete, as necessary)

- ☐ 1. NO MATERIALS HAVE EVER BEEN POSSESSED OR PROCURED BY THE LICENSEE UNDER THIS LICENSE.
- OR
- ☐ 2. ALL MATERIALS PROCURED AND/OR POSSESSED BY THE LICENSEE UNDER THE LICENSE NUMBER CITED ABOVE HAVE BEEN TRANSFERRED ON

DATE

TO

WHICH HAS NRC LICENSE NUMBER

OR

- ☐ 3. ALL MATERIALS PROCURED AND/OR POSSESSED BY THE LICENSEE UNDER THE LICENSE NUMBER CITED ABOVE HAVE BEEN TRANSFERRED ON

DATE

TO

WHICH HAS LICENSE NUMBER

ISSUED BY THE STATE OF

OR

- ☒ 4. MATERIALS HAVE BEEN DISPOSED OF IN THE FOLLOWING MANNER. (Describe specific disposal procedures—if additional space is needed, use the reverse of this form, or provide attachments)

RADIOACTIVE WASTE SHIPMENT WAS MADE TO  
ADCO SERVICES, INC. 4/26/85. SEE ATTACHED  
DOCUMENTATION.

## B. OTHER DATA

- ☒ 1. OUR LICENSE HAS NOT YET EXPIRED; PLEASE TERMINATE IT.
- ☐ 2. WAS A RADIATION SURVEY CONDUCTED TO CONFIRM THE ABSENCE OF LICENSED RADIOACTIVE MATERIALS AND TO DETERMINE WHETHER ANY CONTAMINATION REMAINS ON THE PREMISES COVERED BY THE LICENSE? (Check one)
- ☐ NO
- ☐ YES, THE RESULTS (Check one)
- ☐ ARE ATTACHED, OR
- ☐ WERE FORWARDED TO NRC ON (Date)

3. THE PERSON TO BE CONTACTED REGARDING THE INFORMATION PROVIDED ON THIS FORM

NAME

IVA SUE SMITH

TELEPHONE NUMBER

317-845-2386

4. MAIL ALL FUTURE CORRESPONDENCE REGARDING THIS LICENSE TO

9115 HAGUE ROAD INDIANAPOLIS, IND. 46250

RETURN TO:

~~8507120638~~

DIRECTOR, DIVISION OF FUEL CYCLE AND MATERIAL SAFETY  
OFFICE OF NUCLEAR MATERIAL SAFETY AND SAFEGUARDS  
U.S. NUCLEAR REGULATORY COMMISSION  
WASHINGTON, DC 20555

CERTIFYING OFFICIAL

SIGNATURE

Iva Sue Smith

DATE

4/30/85

PRINTED NAME AND TITLE

Mgr. Regulatory Affairs



April 23, 1985

Ms. Iva Sue Smith  
Manager, Regulatory Affairs  
Boehringer Mannheim Diagnostics, Inc.  
9115 Hague Road - P.O. Box 50100  
Indianapolis, IN 46250

Dear Ms. Smith:

This correspondence serves to document direct radiation surveys performed on April 22, 1985. These surveys were performed to measure any residual contamination levels associated with the use of I-125 labelled RIA kits and to determine the relative amount of radioactivity remaining in used RIA kits as well as a small amount of radioactive waste.

The instrument utilized to perform these surveys was a Ludlum Model 177 Portable Ratemeter equipped with a Ludlum Model 44-3 thin crystal NaI probe. The detection efficiency at contact was determined on the date of this survey and was calculated to be  $2.07E05$  cpm/uCi for I-129 which corresponds to  $2.6E05$  cpm/uCi for I-125. The average background counting rate was measured to be approximately 60 cpm. This corresponds to a minimum detectable activity (MDA) of approximately  $9.0E-05$  uCis.

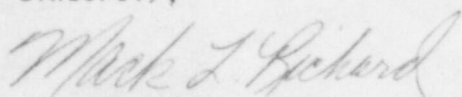
There were two areas monitored for residual contamination levels. These areas were the Quality Assurance Microbiology/Immunology Laboratory where the RIA procedures were carried out and the "finished goods" cooler which was used for storage. Surveys were made of all benches, lab equipment, hoods, shelves, and floors in these areas. No contamination levels above background were detected.

A group of expired RIA kits being stored in the Receiving/Distribution Warehouse were monitored. The radiation levels around these kits varied depending on geometry; however, radiation levels on the order of three times the background level were easily detectable at one foot from the kits. Based on the results of the survey, these kits should be treated as radioactive waste and disposed accordingly.

A partially filled 30 gallon radioactive waste drum was also surveyed. There were no measurable radiation levels at the outer surface of the drum; however, radiation levels equivalent to approximately three times background were noted inside the drum at about one foot above the contents. This material should also be considered radioactive waste and disposed accordingly.

Should you have any questions regarding the aforementioned information or require further assistance in this matter, please do not hesitate to contact me.

Sincerely,



Mack L. Richard, M.S.  
Health Physicist

# CONTROL PROCEDURES MANUAL

Revision Date: \_\_\_\_\_

Approval: ECN 04312 (10/14/83)

Wipe Test for monitoring radioactivity

Control Procedure No. 38

Purpose: To monitor the amount of residual radioactivity in the  
Riaphase work area.

Materials: 15 - 12 x 75 mm polystyrene culture tubes  
14 - cotton tipped wooden swabs Packard Gamma Counter

Procedure: 1.) Place one swab in all but one tube and number tubes 1-15.  
The empty tube serves as a background count for the tubes.

2.) Swab each area indicated on the diagram, making sure the  
tube number corresponds with the number of the area. After  
swabbing the area, break the swab off even with the top  
of the tube.

3.) Place all tubes into Packard Gamma Counter racks and load racks  
onto instrument. Run tubes on program 5.

## Parameters for Program 5

Assay Number: 5  
Radionuclide: 1  
Time: 1.0  
Count Mode, All/Odd/Even: 0  
Background: 0  
Screening: 0  
CPM/Dose: 0

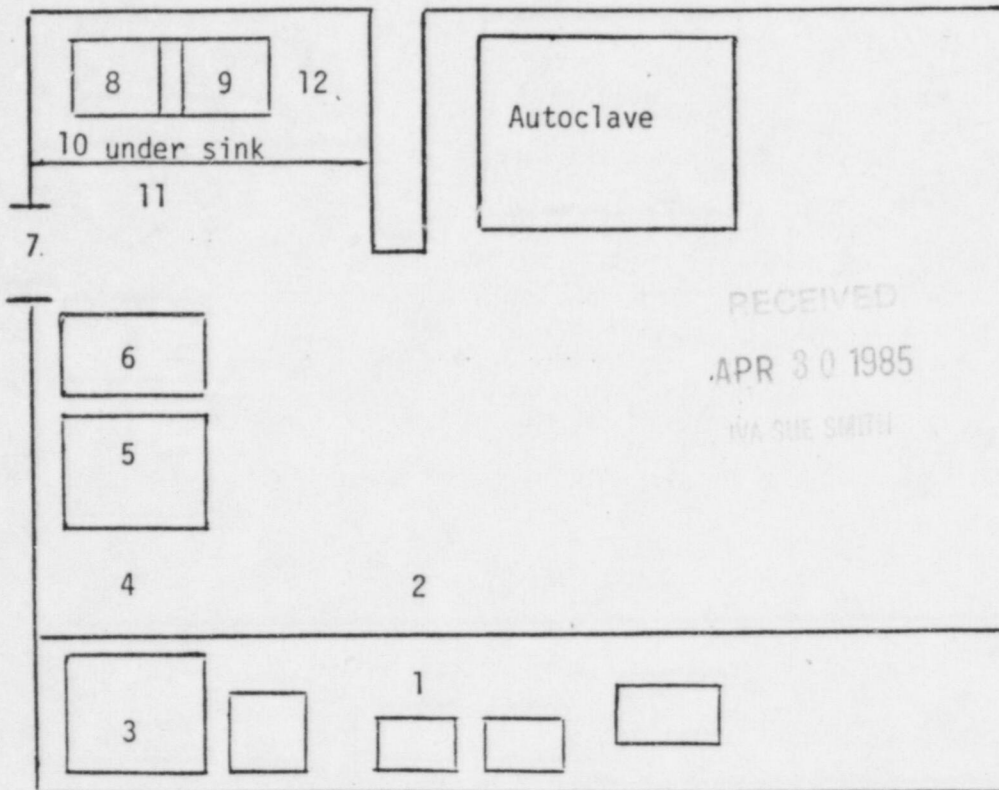
- 4.) After printout is complete, check all counts against count  
of blank tube with swab. Any area with more than twice the  
counts of the blank with swab should be decontaminated and  
rewiped.
- 5.) Decontamination: On benches with paper on top, replace  
paper. On other surfaces, use Radiowash according to  
directions on can.
- 6.) Enter results in wipe test book.
- 7.) To be performed weekly.



Microbiology/Immunology Q.C.

Laboratory Wipe Test

Date: 4-22-85



13 Area in cooler where Riaphase kits are stored.

Area #	CPM	Area #	CPM
1	17	9	20
2	20	10	20
3	16	11	15
4	15	12	9
5	19	13	17
6	24	14 Bckd	27
7	16	15 Bckd $\bar{c}$ swab	15
8*	58		

CONTROL NO. 78899

8\* (Retest) 35 (used Radiac Wash then did Retest 2)  
 8 Retest 2 15

Tech: Delana Stockbuck  
 Supervisor: Connie Tellman

P.O. BOX 35 • TINLEY PARK, ILLINIOS 60477 • 312-429-1660

CITY \_\_\_\_\_ ST. \_\_\_\_\_ PURCHASE ORDER # \_\_\_\_\_

DISCLAIMER: Upon acceptance of shipment, the materials therein become the sole property of ADCO SERVICES, INC.

DRIVERS SIGNATURE \_\_\_\_\_

Lullman 14c  
C. 4.  
3-11-88

is an acknowledgment that a Bill of Lading has been issued and is not the Original Bill of Lading, nor a copy or duplicate, covering the property named herein, and is intended solely for filing or record.

Shipper's No.

Carrier's No.

ADCOM EXPRESS, INC.  
(Name of Carrier)

RECEIVED, subject to the classifications and tariffs in effect on the date of the receipt by the carrier of the property described in the Original Bill of Lading

A7225 DUVAN DR., TINLEY PARK, IL 4-2619 f85

FROM

the property described below in apparent good order except as noted intransits and condition of contents of packages unknown, marked, consigned, and destined as indicated below, which said carrier (the would carrier being underloaded through out this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over which or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classification in effect on the date hereof, if this is a rail or a rail water shipment or in the applicable motor carrier classification, and (2) in a motor carrier shipment.

Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff in which said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

CONSIGNEE TO BOEHRINGER MANNHEIM CORP

DESTINATION INDIANAPOLIS

STATE Ind

COUNTY

(Mail or street address of consignee—For purposes of notification only)

DELIVERY ADDRESS

DELIVERY ADDRESS

(★ To be filled in only when shipper desires and governing tariffs provide for delivery thereat.)

ROUTE

DELIVERING CARRIER

ADCOM EXPRESS, INC.

CAR OR VEHICLE INITIALS

NO.

[illegible]

Subject to Section 7 of Conditions of applicable bill of lading, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:

The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor.)

If charges are to be prepaid, write or stamp here, "To be Prepaid."

PREPAID

Received \$ \_\_\_\_\_  
to apply in prepayment of the charges  
on the property described hereon.

Agent or Cashier

Per \_\_\_\_\_  
(The signature here acknowledges  
only the amount prepaid.)

Charges Advanced:

\$

C.O.D. SHIPMENT

C. O. D. Amt.

Collection Fee

Total Charges

**NOTE**— Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

Freight Classification. + Shipper's imprint in lieu of stamp; not a part of bill of lading approved by the Interstate Commerce Commission.

SHIPPER PER

AGENT

PEA

Permanent postoffice address of shipper.

TOPS 3741  
LITHO - USA

CONTROL NO. 78899