

CERTIFICATE OF DISPOSITION OF MATERIALS

(All items MUST be completed, please print)

LICENSEE NAME AND ADDRESS Deborah Cardiovascular Research Institute 1 Trenton Road Browns Mills, New Jersey 08015	LICENSE NUMBER 29-20513-01 LICENSE EXPIRATION DATE 11/30/86
--	--

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 1/9/85	TO Patricia M. Germon, M.D., Chief, Nuclear Medicine Deborah Heart and Lung Center	WHICH HAS NRC LICENSE NUMBER 29-18190-01
----------------	--	---

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)

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

FEE EXEMPT

Termination

VOIDED 11/5/86--Licensee requested withdrawal of termination.

RECEIVED BY LFMS	
Date	8/19/86
Log	Aug 14 I
By	J. Kimberly
Date Completed	8/19/86

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 Carol Wilson	TELEPHONE NUMBER (609) 893-1016
----------------------	------------------------------------

4. MAIL ALL FUTURE CORRESPONDENCE REGARDING THIS LICENSE TO

Carol Wilson, Administrator
Deborah Research Institute
Trenton Road
Browns Mills, New Jersey 08015

8703240477 861106
REG1 LIC30
29-20513-01 PDR

RETURN TO: 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 DATE 8/14/86 PRINTED NAME AND TITLE Carol Wilson, Administrator
--	--

"OFFICIAL RECORD COPY"

ML10



Deborah
Heart and Lung
Center

Brown Mills, NJ 08015 • 609/893-6611

MEMO TO: Radiation Safety Committee, Mrs. Carol Wilson, Research Bldg.
FROM: P. Germon, M.D., Nuclear Medicine
RE: "Hot" spot in room 115 Research Bldg.

On April 22, 1985, Mrs. Lauderman and I investigated the area of contamination found and acknowledged by the Health Physicist in his report of April 15, 1985. This room had not been in use since December 1984.

We decontaminated the area until background levels were obtained with our GM monitor and surveyed the remaining areas in this room and found only background levels of activity. Wipe tests were also obtained of the region of interest and contiguous areas. When counted in our Department, only background levels were obtained. All decontaminating materials were returned to our area of storage and decay.

The area is considered safe for use but we observed that the work bench tops were of slate and therefore porous. In the future we would not consider this area suitable for use with radioactive materials because of the porous nature of the work bench.

P. Germon, MD

January 9, 1985

Transfer of Radioactive Materials:

The items described below are hereby transferred from Thomas E. Carew, Ph.D., Deborah Cardiovascular Research Institute. (NRC License No. 29-20513-01, NJSL No. 70152-02) to Patricia Germon, M.D., Chief, Nuclear Medicine, Deborah Heart and Lung Center (NRC License No. 29-18190-01, NJSL No. 70152).

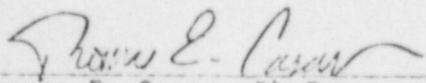
- 1) Cobalt-57 flood sources Ser. No. 90210780A

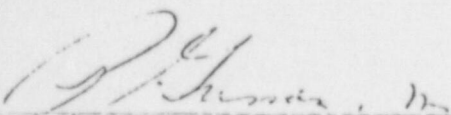
Isotope	Ref. Date	Activity	Current Activity
CO-57	7/15/80	1 mCi	15.2 μ Ci
CO-57	7/15/80	10 μ Ci	0.15 μ Ci

- 2) 5 vials of Sr-85 bound to solid microspheres (microspheres are in aqueous suspension)

Vial No.	Isotope	Ref. Date	Activity	Current Activity (1/9/85)
1	Sr-85	5/10/83	50 μ Ci	0.068 μ Ci
2	Sr-85	11/23/83	5 μ Ci	0.058 μ Ci
3	Sr-85	6/27/83	1mCi	2.30 μ Ci
4	Sr-85	6/27/83	0.5mCi	1.15 μ Ci
5	Sr-85	11/23/83	125 μ Ci	1.44 μ Ci
			Total	5.016 μ Ci

The cobalt flood sources were wipe tested today (1/9/85). Wipe tests showed no activity above background. Previous wipe tests of these sources are on file at the Deborah Cardiovascular Research Institute.


Thomas E. Carew, Ph.D.
Deborah Cardiovascular Research Institute


Patricia Germon, M.D.
Deborah Heart and Lung Center

RADIATION AND ENVIRONMENTAL HEALTH SERVICES

P. O. BOX 261, PEARL RIVER, N.Y. 10965

(914) 735-7717

April 15, 1985

Ms. Carol Wilson
Administrator
Deborah Cardiovascular Research Institute
Browns Mills, N.J. 08015

Re: Facility close-out survey
New Jersey License No., NJSL 70152-02, expiration date June 30, 1985
NRC License No. 29-20513-01, expiration date November 30, 1986

Dear Ms. Wilson:

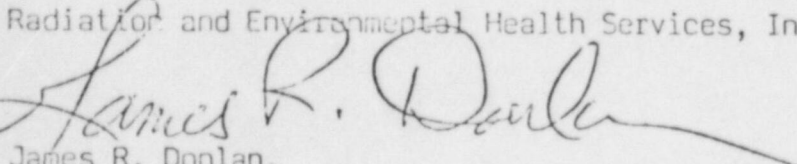
The survey results and recommendations for the decommissioning of the laboratory area of the Research Institute is enclosed. This survey is to be sent to the State of New Jersey, Bureau of Radiation Protection and the Nuclear Regulatory Commission.

I have included form DEQ-063, "Certificate-Disposition of Radioactive Material". This is to be sent to the New Jersey Bureau of Radiation Protection to satisfy their requirements for notification of proper disposition or transfer of radioactive materials. The Nuclear Regulatory Commission should also be informed of such disposition. A license amendment may be required by the licensee receiving any of these materials.

Please call me if you have any questions.

Sincerely,

Radiation and Environmental Health Services, Inc.



James R. Donlan,
Health Physicist

enclosure

RADIATION AND ENVIRONMENTAL HEALTH SERVICES

P.O. BOX 261, PEARL RIVER, N.Y. 10965

(914) 735-7717

April 15, 1985

Facility close-out survey
Deborah Cardiovascular Research Institute
Browns Mills, N.J. 08015

Survey performed for the release of restricted areas as non-restricted areas
New Jersey License No. NJSL 70152-02, expiration date June 30, 1985
NRC License No. 29-20513-01, expiration date November 30, 1986
Survey date: April 1, 1985

Survey performed by:

Radiation and Environmental Health Services, Inc
James R. Donlan, Health Physicist

Instrumentation:

1. Ludlum GM with an end window probe
Window thickness: 1.4 to 2.0 mg/cm sq
Background: Approximately 0.02 mR/hr
Calibration date: August, 1984
2. Nuclear Chicago Automatic Gamma Spectrometer
Window setting: open
Efficiency: 50% for conservative approximation
Background: 170 cpm
3. Beckman Liquid Scintillation Counter
Window setting: open
Efficiency: 40% for conservative approximation
Background: 40 cpm

Contamination wipes tests collected using 2.3 cm filter paper wet with water

Recommendations:

The following recommendations are made based on survey results:

1. A small area of a workbench was found to be contaminated in room 115. This area is located on the diagram enclosed for the survey results.

Removable contamination was on the order of 23,000 dpm per 100 sq cm. The exposure rate, measured at the surface with the GM survey instrument was approximately 1 mR/hr. Exposure rates at worker locations and under the counter were consistent with background. Exposure was reduced to significantly by introducing paper between the contaminated area and the window of the GM.

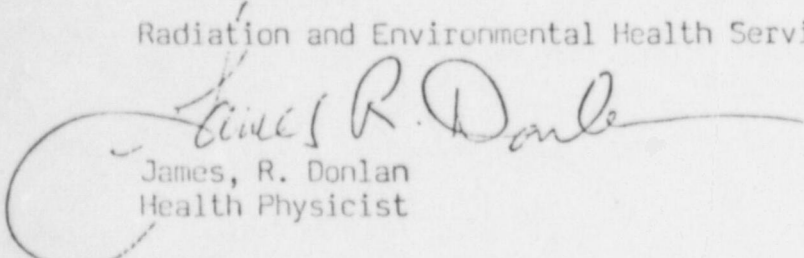
The removable contamination was identified, using liquid scintillation techniques, to be a beta emitter. The beta particles have an energy equivalent beta particles emitted from carbon-14.

Decontamination using detergent and a mild abrasive should be performed in order to eliminate removable contamination. Decontamination efforts should be monitored using wipe test surveys. Decontamination should proceed until significant levels of removable contamination are no longer present. The exposure rate at the counter surface (and worker locations) should be monitored. Any measured exposure from material remaining may be reduced to lower levels by the addition of a layer of paint, as this should be sufficient to stop low energy beta particles.

2. All other areas surveyed, including equipment, work areas, storage locations and waste receptacles used for radioactive materials were found to be free of gross removable contamination. Survey results using a GM survey instrument were on the order of background (0.02 mR/hr). Specific levels of contamination (except for the area described in item 1) were below 220 dpm/100 sq cm, beta or gamma emitters, for unrestricted areas as listed in table 2, Regulatory Guide 8.23.
3. General housekeeping and cleaning of the laboratory areas should consider the presence of other materials (chemicals, biological material, etc.) during any clean-up procedures. All necessary precautions should be observed.

Respectfully submitted,

Radiation and Environmental Health Services, Inc.


James, R. Donlan
Health Physicist

Survey results:

The following pages contain the results of this survey. Survey locations may be obtained by the number, description and drawings. GM survey results on the order of background were recorded as background. Wipe test survey results are in net DPM per 100 sq cm. All instrumentation, including background results and efficiencies are listed on page one of this report.

RECEIVED-REGION 1
1986 AUG 22 PM 2:21



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

03019354
03620
11/86

8/19/86

BETWEEN: William O. Miller, Chief
License Fee Management Branch
Office of Administration

Regional License Section
Material Licensing Branch
FCMS, Office of Nuclear Material
Safety & Safeguards

LICENSE FEE TRANSMITTAL

A. REGION

1. APPLICATION ATTACHED

Applicant/Licensee: Deborah Cardiovascular Res. Inst.
Application Dated: 8/14/86
Control No.: 119853
License No.: 29-20513-D1

2. FEE ATTACHED

Amount: _____

Check No.: _____

3. COMMENTS

Signed _____

Date _____

B. LICENSE FEE MANAGEMENT BRANCH

1. Fee Category and Amount: 3m

FEE EXEMPT
Termination

2. Correct Fee Paid. Application may be processed for:

Amendment

Renewal

License

Signed A. Kimberley

Date 8/19/86