

**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

License number	SNM-920
Docket or Reference number	070-00968
	Amendment No. 07

OFFICIAL RECORD COPY

Gannon University
University Square
Erie, Pennsylvania 16541

In accordance with the letter dated June 2, 1997, License Number SNM-920 is hereby terminated.



Date SEP - 3 1997

For the U.S. Nuclear Regulatory Commission

**Original Signed By:
John D. Kinneman**

By King of Prussia, Pennsylvania 19406
Nuclear Materials Safety Branch
Region I

9710010198 970903
PDR ADOCK 07000968
C PDR

ML 10

GANNON
UNIVERSITY

MS 16
Q-2

109 University Square • Erie, Pennsylvania • 16541-0001 • 814/871-7000

10 July 97

070-00968

Mail Control No. 124649

Mr. Sattar Lohdi
United States Nuclear Regulatory Commission
Region 1
475 Allendale Road
King of Prussia, PA 19406-1415

Dear Mr. Lohdi:

As per your telephone conversation with Dr. Griesacker on 30 June 1997 relating to License No. SNM-920, this communication confirms that Gannon University no longer has any licensed nuclear material left on site. The Iodine 125 for which License No. SNM-920 was amended in August 1993, was never ordered therefore was not and is not on site.

Thank you for your consideration in this matter.

Sincerely,



Loretta Seigley, Ph.D., R.N.
Dean, Science and Engineering

LS/lm

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NR

070-00968

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June 2, 1997

Mr. J. R. McFadden, Ph.D., C.H.P.
United States Nuclear Regulatory Commission
Region 1
475 Allendale Road
King of Prussia, PA 19406-1415

Dear Dr. McFadden:

Enclosed please find NRC form 314 with the results of the most recent leak test for the sealed Pu Be source (License number SNM-920). All previous leak tests were also negative.

Thank you for your assistance in this matter.

Sincerely,



Loretta Seigley, Ph.D.
Interim Dean
College of Sciences, Engineering, and Health Sciences

124649

JUN 6 1997

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(6-95)
10 CFR 30.36(c)(1)(iv)
10 CFR 40.42(c)(1)(iv)
10 CFR 70.38(c)(1)(iv)

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS MANDATORY INFORMATION COLLECTION REQUEST: 30 MINUTES. THIS SUBMITTAL IS USED BY NRC AS PART OF THE BASIS FOR ITS DETERMINATION THAT THE FACILITY HAS BEEN CLEARED OF RADIOACTIVE MATERIAL BEFORE THE FACILITY IS RELEASED FOR UNRESTRICTED USE. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE INFORMATION AND RECORDS MANAGEMENT BRANCH (T-6 F33), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555-0001, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0028), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503. AN AGENCY MAY NOT CONDUCT OR SPONSOR, AND A PERSON IS NOT REQUIRED TO RESPOND TO, A COLLECTION OF INFORMATION UNLESS IT DISPLAYS A CURRENTLY VALID OMB CONTROL NUMBER.

CERTIFICATE OF DISPOSITION OF MATERIALS

INSTRUCTIONS: ALL ITEMS MUST BE COMPLETED -- PRINT OR TYPE
SEND THE COMPLETED CERTIFICATE TO THE NRC OFFICE SPECIFIED ON THE REVERSE

LICENSEE NAME AND ADDRESS

Gannon University
Perry Square
Erie, PA 16541

LICENSE NUMBER

SNM-920

LICENSE EXPIRATION DATE

30 September 2003

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

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

- 1. NO MATERIALS HAVE EVER BEEN PROCURED OR POSSESSED BY THE LICENSEE UNDER THIS LICENSE.
- OR
- 2. ALL ACTIVITIES AUTHORIZED BY THE LICENSE HAVE CEASED AND ALL MATERIALS PROCURED AND/OR POSSESSED BY THE LICENSE NUMBER CITED ABOVE HAVE BEEN DISPOSED OF IN THE FOLLOWING MANNER. (If additional space is needed, use the reverse side or provide attachments.)

Shipped to Los Alamos National Laboratory Group FSS-12, MS-G735

Describe specific material transfer actions and, if there were radioactive wastes generated in terminating this license, the disposal actions including the disposition of low-level radioactive waste, mixed waste, Greater-than-Class-C waste, and sealed sources, if applicable.

Bionomix Inc. picked up the licensed material on 21 Jan 97

Lan# 2201 741# YCU-AUA-1 TID 000015

For transfers, specify the date of the transfer, the name of the license recipient, and the recipient's NRC license number or Agreement State name and license number.

If materials were disposed of directly by the licensee rather than transferred to another licensee, licensed disposal site or waste contractor, describe the specific disposal procedures (e.g., decay in storage)

B. OTHER DATA

- 1. OUR LICENSE HAS NOT YET EXPIRED; PLEASE TERMINATE IT.
- 2. A RADIATION SURVEY WAS CONDUCTED BY THE LICENSEE 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 (Attach explanation)
 - 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

Paul B. Griesacker

TELEPHONE NUMBER

(Include Area Code)

814 871-7649

4. MAIL ALL FUTURE CORRESPONDENCE REGARDING THIS LICENSE TO

Loretta Seigley, Ph.D., R.N.
Dean, Science and Engineering
Gannon University
109 University Square
Erie, PA 16541-0001

CERTIFYING OFFICIAL

I CERTIFY UNDER PENALTY OF PERJURY THAT THE FOREGOING IS TRUE AND CORRECT

PRINTED NAME AND TITLE

Paul B. Griesacker

SIGNATURE

DATE

31 May 97

WARNING: FALSE STATEMENTS IN THIS CERTIFICATE MAY BE SUBJECT TO CIVIL AND/OR CRIMINAL PENALTIES. NRC REGULATIONS REQUIRE THAT SUBMISSIONS TO THE NRC BE COMPLETE AND ACCURATE IN ALL MATERIAL RESPECTS. 18 U.S.C. SECTION 1001 MAKES IT A CRIMINAL OFFENSE TO MAKE A WILLFULLY FALSE STATEMENT OR REPRESENTATION TO ANY DEPARTMENT OR AGENCY OF THE UNITED STATES AS TO ANY MATTER WITHIN ITS JURISDICTIONS.

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Data Table #21: Control for samples #3, #4, #8, and #9

Count per 30 minutes	Avg count per minute
398	13.3
374	12.5
398	13.3
375	12.5
336	11.2
422	14.1

The above control readings were taken once every 90 minutes.

Data Table #22: Sample averages and uncertainty of the control

Sample #	Avg <cpm> of sample	Avg <cpm> of control	
1	12.7	14.2	1.4
2	13.2	15.7	2.3
3	12.6	12.8	0.4
4	12.1	12.8	0.4
5	12.7	11.7	1.1
6	13.5	12.4	0.9
8	12.6	12.8	0.4
9	12.5	12.8	0.4

Data Table #23: The number of standard errors of the difference of the means, $Z(\langle x \rangle, \mu)$, that μ , the control, is from $\langle x \rangle$, the sample.

Sample #	$Z(\langle x \rangle, \mu)$
1	1.10
2	0.65
3	0.50
4	1.75
5	0.91
6	1.22
7	0.00
8	0.50
9	0.75

Data Table #24: Summary of results
 $\langle x \rangle$ = sample mean and μ = control mean
 $Z(\langle x \rangle, \mu)$ is defined in Data Table #23

Sample #	# of trials	Time (min)	Is $Z(\langle x \rangle, \mu)$ within		
			1.00	1.65	1.96
1	10	3	No	Yes	Yes
2	30	1	Yes	Yes	Yes
3	3	30	Yes	Yes	Yes
4	3	30	No	No	Yes
5	6	5	Yes	Yes	Yes
6	3	10	No	Yes	Yes
7	---	---	Yes	Yes	Yes
8	3	30	Yes	Yes	Yes
9	3	30	Yes	Yes	Yes

CONCLUSION

Assuming a confidence level of 95%, we may conclude that there is not a significant radioactive difference between the active samples and the control (background). Moreover, we accept the null hypothesis that the control mean, μ , and the sample mean, $\langle x \rangle$, are from the same distribution. Therefore, there is no indication of a leak in the neutron howitzer of Gannon University at the 95% confidence level.