

United States  
Nuclear Regulatory Commission  
Region I  
475 Allendale Rd.  
King of Prussia, PA 19406

July 18th, 2008

Br. 1

Dr Sir or Madam,

We would like to request that Vladimir Ioffe, M.D. be added to our materials license as an authorized user. We would also like to add Palladium-103 (model - **200Link**) to our radioactive materials license.

Attached: Vladimir Ioffe's CV, Maryland DOE Radioactive Material License, and American Board of Radiology Certificate.

Our License No. 07-17618-01 03013060

Sincerely,

*Sandra Zorn*

Sandra Zorn  
Director  
Cancer Care Center  
Nanticoke Memorial Hospital  
(302) 629-6611 ext. 3609

**VLADIMIR IOFFE**

5583 N. Nithsdale Drive  
Salisbury, MD 21801  
410-591-6910 (cell)  
vioffe@rtsx.com

**Education**

University of Maryland School of Medicine

07/1997 - 05/2001 - Doctor of Medicine (M.D.)

University of Maryland Baltimore County (UMBC)

08/1993 - 05/1997 - Bachelor of Science, Biochemistry and Molecular Biology  
- Non-Major Concentration in Political Science

**Residency**

Eastern Virginia Medical School

07/2002 - 06/2006 - Radiation Oncology  
- Chief Resident Senior Year

Clinical Externship: University of Texas, Southwestern Medical Center

4/2006 - Stereotactic Body Radiation Therapy  
- Robert Timmerman, M.D.

University of Maryland Medical Center

07/2001 - 06/2002 - Internship, Internal Medicine

**Employment**

21<sup>st</sup> Century Oncology, Delmarva Region

7/2006 - Current - Physician, Radiation Oncology

**Radiation Oncology Skills**

3D-Conformal Radiation Therapy (all sites), Intensity Modulated Radiation Therapy (all sites), Stereotactic Radiosurgery, Stereotactic Radiotherapy, Stereotactic Body Radiation Therapy, Prostate Brachytherapy, GYN HDR and LDR, Unsealed Sources (I-131, Sr, Sm, Zevalin, Bexxar), IGRT (orthogonal and cone beam CT), MR or PET/CT Aided Field Delineation, Conventional Simulation, CT Simulation, Interstitial Brachytherapy, Intravascular Brachytherapy, Portal Vision, EMR

**Academic Honors**

*Undergraduate Education*

- Outstanding Student for the Biochemistry Department (1997)
- Rhodes Scholar finalist (1996)
- Scholar Athlete Award for Academic Excellence (1993-97)
- Magna Cum Laude

***Medical School***

- Awarded scholarship from Mayo Clinic – Medical Oncology Rotation (2000)
- Awarded scholarship from Roswell Park Cancer Institute – Student Internship (1998)
- Merit based State Delegate and State Senatorial Scholarships (1997-01)

***Residency***

- 2004 RSNA Resident Research Trainee Prize – 1<sup>st</sup> Place
  - Toxicity Reduction in Breast Irradiation: Modified Irradiation Technique for Women with Large Breasts
- 2002 Maryland ACP (American College of Physicians) – 2<sup>nd</sup> Place Poster Competition
  - Fetal and Ovarian Radiation Dose in Patients Undergoing Gamma Knife Radiosurgery

**Non-Academic Awards**

- 2000 AMA Foundation Leadership Award

**Publications**

- 1) **Ioffe V**, Sandhu A, Karakla D, Wadsworth T, Mendoza A, Rao N, Dignan K, Mason E, Saadeh G, Goffman T: Prospective Single Arm Study of Radioprotection by Amifostine in High Dose Radioiodine Therapy for Thyroid Cancer. *International Journal of Radiation Oncology, Biology, Physics*. 2005; 63(2, Supplement 1):S147-S148. Abstract # 1002.
- 2) Miller M, **Ioffe V**, Ruffin WK, Giri S: Primary MALT Lymphoma of the Dura in a Patient with Active Scleroderma: Case Report and Literature Review. *Clinical Advances in Hematology & Oncology* 2004; 2(12):815-819.
- 3) **Ioffe V**, Sandhu A, Graham DW, Parker NW, Silverberg ML, Giri S: Primary Adenoid Cystic Carcinoma of the Trachea: Case Series and Literature Review. 3<sup>rd</sup> International Chicago Symposium on Malignancies of the Chest and Head & Neck, October 2004. *Lung Cancer*. October 2004; 46(Supplement 1):74-75.
- 4) **Ioffe V**, Miller M, Sandhu A, Neuner GA, Giri S, Koen J, Partington J, Wong P, Goffman T: Radiosurgical treatment of brain metastases in a community oncologic practice. *Community Oncology* 2004; 1(3):149-158.
- 5) Goffman T, **Ioffe V**, Tuttle M, Bowers JT, Mason ME: Near Lethal Respiratory Failure after rhTSH in a Patient with Metastatic Thyroid Carcinoma. *Thyroid* 2003; 13(8):827-830.
- 6) **Ioffe V**, Hudes RS, Shepard D, Simard JM, Chin LS, Yu C: Fetal and Ovarian Radiation Dose in Patients Undergoing Gamma Knife Radiosurgery. *Surgical Neurology* 2002;58:32-41.

7) Balcer-Kubiczek E.K., Zhang XF, Han LH, Harrison GH, Davis CC, Zhou XJ, Ioffe V, McCready WA, Abraham JM, and Meltzer SJ. BIGEL analysis of gene expression in HL60 cells exposed to X rays or 60 Hz magnetic fields. Radiation Research 1998 Dec; 150(6):663-72

## **Presentations**

- 1) The 4<sup>th</sup> S. Takahashi Memorial International Workshop on 3D-CRT  
The Nagoya Congress Center, Nagoya, Japan  
Poster Presentation, December 10-12, 2004  
Title: Dosimetric Comparison of Three-Dimensional Conformal Radiation Therapy (3D-CRT) vs. Intensity Modulated Radiation Therapy (IMRT) in Head & Neck Cancer
- 2) 2004 Annual RSNA meeting, Chicago Illinois  
Oral Presentation, December 3, 2004  
Title: Toxicity Reduction in Breast Irradiation: Modified Irradiation Technique for Women with Large Breasts
- 3) 2004 Annual RSNA meeting, Chicago Illinois  
Oral Presentation, November 29, 2004  
Title: Radiosurgical Treatment of Brain Metastases in a Community Oncologic Practice
- 4) 2004 3rd Intern. Chicago Symposium on Malignancies of the Chest and Head & Neck  
Poster presentation, October 7-9, 2004  
Title: Primary Adenoid Cystic Carcinoma of the Trachea: Case Series and Literature Review
- 5) 2002 Annual Meeting of the Maryland ACP (American College of Physicians)  
Poster presentation  
Title: Fetal and Ovarian Radiation Dose in Patients Undergoing Gamma Knife Radiosurgery
- 6) 2001 Annual RSNA meeting, Chicago, Illinois  
Poster presentation  
Title: Fetal and Ovarian Radiation Dose in Patients Undergoing Gamma Knife Radiosurgery

**Leadership Activities***Organized Medicine*

- Vice-President MedChi (MD State Medical Society) Students' Section (2000-2001)
- Baltimore City Medical Society Board of Directors (1998-2002)
- MedChi Membership Committee (1998-2002)
- MedChi AMA Delegation (1999-2000)
- Maryland State Chair AMA-Medical Student's Section (1999-2000)
- President of the St. George's Cancer Society

*Activism*

- Authored resolution on prevention of smoking among young adults (2000)
- The resolution was passed by the MedChi House of Delegates creating a new state medical policy (1/2001)
- Wrote an amendment to a State Senate bill and defended the amendment with testimony in the Economic and Environmental Affairs Committee (State Senate) on behalf of MedChi and Smoke-Free MD (3/2001)
- Provided testimony to the Governor's Taskforce on Smoking Cessation
- Lobbied Maryland Congressional Representatives and State General Assembly Representatives to support public health and patient advocacy bills

**Athletic Extracurricular Activities**

- University of Maryland Varsity Tennis (1993-1997)
- Medical school basketball team (1997)

**Volunteer Experience**

- Prostate cancer screening, Sentara Cancer Centers (2004)
- VNA Hospice (2/98-2000)

**Certification***United States Medical Licensing Examination*

- Step I - June, 1999 - Passed
- Step II - August, 2000 - Passed
- Step III - June, 2002 - Passed

*American Board of Radiology (Radiation Oncology)*

June 5, 2007 - Board Certified in Radiation Oncology

**Professional Memberships**

- ASTRO, American Society for Therapeutic Radiation Oncology
- ASCO, American Society of Clinical Oncology
- AMA, American Medical Association
- MedChi, Maryland State Medical Society
- RSNA, Radiologic Society of North America
- ACRO, American College of Radiation Oncology

**Family**

[REDACTED]

**Hobbies**

-Racquet sports; jogging; cycling; fantasy football

**Second Language**

-Fluent in Russian

**PERSONAL INFORMATION WAS REMOVED  
BY NRC. NO COPY OF THIS INFORMATION  
WAS RETAINED BY THE NRC.**



Department of the Environment

# **RADIOLOGICAL HEALTH PROGRAM RADIOACTIVE MATERIAL LICENSE**

Page 1 of 4

Pursuant to the Maryland Radiation Act, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, possess and transfer radioactive material listed below; and to use such radioactive material for the purpose(s) and at the place(s) designated below. The license is subject to all applicable rules, regulations and orders of the Maryland State Department of the Environment, now or hereinafter in effect and to any conditions specified below.

1. Name: Chesapeake Surgery Center 804 Snow Hill Road		3. License No.: MD-45-025-01
2. Address: Salisbury, Maryland 21804		4. Amendment Number: NEW (Code 02301)
		5. Expiration Date: April 30, 2015
6. Radioactive material element & mass number:	7. Chemical and/or physical form:	8. Maximum amount of radioactivity which licensee may possess at any one time:
A. Palladium-103	A. Sealed Sources	A. 400 millicuries
B. Iodine - 125	B. Sealed Sources	B. 400 millicuries
C. Cesium-131	C. Sealed Sources	C. 400 millicuries

## License Conditions

9. Authorized Use(s):
  - A. Brachytherapy. Permanent interstitial implant for treatment of cancer in humans.
  - B. Brachytherapy. Permanent interstitial implant for treatment of cancer in humans.
  - C. Brachytherapy. Permanent interstitial implant for treatment of cancer in humans.
10. The authorized place of use is the licensee's address stated in Item 2. The licensee must notify the Radiological Health Program 30 days prior to vacating a permanent use address.
11.
  - A. The radiation protection program shall be under the supervision of Vladimir Ioffe, M.D..
  - B. Radioactive material shall be used by or under the supervision of Mark Sobczak, M.D., Vladimir Ioffe, M.D., Manoj Jain, M.D., and Scott Edwards, M.D.
  - C. Radioactive material shall be administered to, or removed from humans by Mark Sobczak, M.D., Vladimir Ioffe, M.D., Manoj Jain, M.D., and Scott Edwards, M.D.
  - D. Medical Physicists authorized on this license are: Xudong Chen, M.S. and Sarkar Chakravorty, Ph.D.
12. The licensee shall comply with all appropriate provisions of COMAR 26.12.01.01 "Regulations for Control of Ionizing Radiation," and shall possess a copy of these regulations.



Department of the Environment

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RADIOACTIVE MATERIAL LICENSE**

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License No.: MD-45-025-01

Amendment Number: NEW CODE 02301

**License Conditions, Continued**

13. This condition is specific to the applicant's initial receipt of this license. The licensee shall notify the Radiological Health Program's Inspection and Compliance Division, in writing, no later than 10 calendar days after initial receipt of radioactive material authorized on this license.
14. A. Each sealed source containing radioactive material, other than Hydrogen-3 with a half-life greater than thirty (30) days and in any form other than gas shall be tested for leakage and/or contamination at intervals not to exceed six (6) months. In the absence of a certificate from a transferor indicating that a test has been made within six (6) months prior to the transfer, the sealed source shall not be put into use until tested. If there is reason to suspect that a sealed source might have been damaged, or might be leaking, it shall be tested for leakage before further use.
- B. The test shall be capable of detecting the presence of 0.005 microcurie of radioactive material on the test sample. The test sample shall be taken from the sealed source or from the surfaces of a device in which the sealed source is permanently mounted or stored on which one might expect contamination to accumulate.
- C. Records of leak tests shall be kept in units of microcuries and maintained for inspection by the Department.
- D. If the test reveals the presence of 0.005 microcuries or more of removable contamination, the licensee shall immediately withdraw the sealed source from use and shall cause it to be decontaminated and repaired or to be disposed of in accordance with Department regulations. A report shall be filed within five (5) days of the test with the Administrator, Radiological Health Program, 1800 Washington Boulevard, Baltimore, Maryland 21230, describing the equipment involved, the test results, and the corrective action taken.
- E. Notwithstanding the periodic leak test required by this condition, any licensed sealed source is exempt from such leak tests when the source contains 100 microcuries or less of beta and/or gamma emitting material or 10 microcuries or less of alpha emitting material.
- F. Test for leakage and/or contamination shall be performed by licensee or by other persons specifically authorized by the Department, the U.S. Nuclear Regulatory Commission or another Agreement State to perform such services.
- G. Except for alpha sources, the periodic leak test required by this condition does not apply to sealed sources that are stored and not being used. The sources excepted from this test shall be tested for leakage prior to any use or transfer to another person unless they have been tested within six months prior to the date of use or transfer.
15. Sealed sources containing radioactive material shall not be opened.
16. Radioactive material in brachytherapy sources shall be administered to and removed from human patient only by an authorized physician.





Department of the Environment

**RADIOLOGICAL HEALTH PROGRAM  
RADIOACTIVE MATERIAL LICENSE**

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License No.: MD-45-025-01

Amendment Number: NEW CODE 02301

**License Conditions, Continued**

17. Patients containing therapeutic implants of Iodine-125, Palladium-103 or Cesium-131 shall be released from the hospital using criteria contained in USNRC Regulatory Guide 8.39.
18. The licensee shall conduct a physical inventory every three (3) months to account for all sealed sources received and possessed under the license. The records of the inventories shall be maintained for two (2) years from the date of the inventory for inspection by the Department, and shall include the quantities and kinds of radioactive material, location of sealed sources, and the date of the inventory.
19. Food and beverage containers shall not be discarded in radioactive or normal trash containers in licensee's areas utilizing radioactive materials.
- 20A. The licensee shall not make any false statement, representation, or certification in any application, record, report, plan, or other document regarding radiation levels, tests performed or radiation safety conditions or practices. Additionally, the licensee shall not falsify, tamper with, or render inaccurate any monitoring device or method.
- 20B. Violation of any term, condition, or regulation could subject the licensee to administrative or civil penalty or criminal prosecution, as specified in Title 8, Radiation, of the Article Environment of the Annotated Code of Maryland.
21. The licensee shall not transfer ownership and/or control of this license to any person or entity without providing required information regarding the transfer for the Agency's review and without receiving written authorization for the transfer by the Agency.



Department of the Environment

RADIOLOGICAL HEALTH PROGRAM  
RADIOACTIVE MATERIAL LICENSE

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License No.: MD-45-025-01

Amendment Number: NEW CODE 02301

License Conditions, Continued

22. Except as specifically provided otherwise by this license, the licensee shall possess and use radioactive material authorized by this license in accordance with statements representations and procedures contained in:

1. Application dated October 19, 2007
2. Letter with attachments dated March 21, 2008
3. Facsimile dated April 10, 2008

COMAR 26.12.01.01 "Regulations for Control of Ionizing Radiation" shall govern the licensee's statements in applications or letters, unless the statements are more restrictive than the regulations.

FOR THE MARYLAND DEPARTMENT OF THE ENVIRONMENT

Roland G. Fletcher, Manager III  
Radiological Health Program

April 11, 2008

NAO

NAO

4/15/08

# The American Board of Radiology

*Organized through the cooperation of the  
American College of Radiology, the American Roentgen Ray Society,  
the American Radium Society, the Radiological Society of North America,  
the Section on Radiology of the American Medical Association,  
the American Society for Therapeutic Radiology and Oncology, the Association of  
University Radiologists, and American Association of Physicists in Medicine*

*Hereby certifies that*

**Vladimir Joffe, MD**

*Has pursued an accepted course of graduate study  
and clinical work, has met certain standards and qualifications and  
has passed the examinations conducted under the authority of*

*The American Board of Radiology*

*On this fifth day of June, 2007*

*Thereby demonstrating to the satisfaction of the Board  
that he is qualified to practice the specialty of*

**Radiation Oncology**

AM Eligible



Certificate No. 55079

*Raymond M. ...*  
President

*Leif Eiden*  
Secretary-Treasurer

*R.P. Hatten*  
Executive Director



Valid through 2017

This is to acknowledge the receipt of your letter/application dated

7/18/08, and to inform you that the initial processing which includes an administrative review has been performed.

☒ Amendment (07-17618-01)  
There were no administrative omissions. Your application was assigned to a technical reviewer. Please note that the technical review may identify additional omissions or require additional information.

☐ Please provide to this office within 30 days of your receipt of this card

A copy of your action has been forwarded to our License Fee & Accounts Receivable Branch, who will contact you separately if there is a fee issue involved.

Your action has been assigned **Mail Control Number** 142630.  
When calling to inquire about this action, please refer to this control number.  
You may call us on (610) 337-5398, or 337-5260.