



**JAMES E. CARY**  
CANCER CENTER

Date: August 10, 2009

To: United States Nuclear Regulatory Commission, Region III  
Chief, Materials Licensing Branch  
2443 Warrenville Rd. Suite 210  
Lisle, Illinois 60532-4352

Fr: Mr. Robert Hess  
Interim Director, James E. Cary Cancer Center  
5985 Hospital Dr.  
Hannibal, Mo. 63401

**Subject: License Amendment Requested as per 10CFR 35.14 for NRC License No. 24-32681-01**

Please amend said license to include Stephen M. Rose, M.S. as an Authorized Medical Physicist. He joined our organization on April 27<sup>th</sup> 2009. He has previously been authorized on an Agreement State license for HDR and LDR. Please note highlighted areas on pgs 1, 3 & 9 of the enclosed license, Il-01361-01. Also please find copies of the training certificate for Oncentra Brachytherapy planning system, Nucletron training seminar for the microSelectron V3 and a statement from the Chief Medical Physicist from OSF St. Francis Medical Center attesting to Mr. Rose's participation in High Dose Rate Brachytherapy procedures.

This request was originally made via a letter dated May 14, 2009 as part of a larger amendment. That request was denied in a letter dated July 20, 2009. This request to add Mr. Rose as an Authorized Medical Physicist includes additional information and is seeking approval via a different pathway, as suggested in that letter.

Sincerely,



Robert Hess  
Interim Director, James E. Cary Cancer Center

RECEIVED AUG 13 2009

*A service of Hannibal Regional Hospital & Hannibal Clinic.*

PO Box 551 • 5985 Hospital Drive • Hannibal, MO 63401 • 573.406.5800 • Fax 573.406.5803  
www.CaryCancerCenter.org

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STATE OF ILLINOIS  
 ILLINOIS EMERGENCY MANAGEMENT AGENCY  
 DIVISION OF NUCLEAR SAFETY  
 1035 OUTER PARK DRIVE  
 SPRINGFIELD, ILLINOIS 62704  
 (217) 785-9947

CORRECTED COPY

RADIOACTIVE MATERIAL LICENSE

Pursuant to the Illinois Radiation Protection Act and the rules and regulations in 32 Illinois Administrative Code promulgated thereunder, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, own, possess and transfer radioactive material(s) listed herein; and to use such radioactive material(s) for the purpose(s) and at the place(s) designated below. This license is subject to all applicable rules, regulations and orders of the Agency now or hereafter in effect and to any conditions specified in the license.

<u>LICENSEE</u>	<u>LICENSE NUMBER</u>	<u>EXPIRATION DATE</u>
St. Francis Medical Center 530 N.E. Glen Oak Avenue Peoria, IL 61637	IL-01361-01	December 31, 2013
	<u>AMENDMENT NUMBER</u>	
	56	

Attention: W. Gregg Devanna, M.S.  
 Radiation Safety Officer

In accordance with application dated September 26, 2008, License Number IL-01361-01 is renewed in its entirety. Previous amendments are void.

ITEM	RADIONUCLIDE	CHEMICAL and/or PHYSICAL FORM	MAXIMUM ACTIVITY* PER SOURCE	MAXIMUM POSSESSION LIMIT
A.	Co-60	Sealed Source - AB Elekta Model No. 43047 or Elekta Model No. 43047, 43685 or 1000029	36 Ci	13,200 Ci
B.	Ir-192	Sealed Sources - CIS-US, Inc. Model 724 or MDS Nordion Model Gamma Med 212	12 Ci	16 Ci
C.	U-238 (Depleted)	Solid Metal	6 mCi (18.2 kg)	12 mCi (36.4 kg)
D.	Any in 32 Ill. Adm. Code 335.2040	Any calibration or reference source identified in 32 Ill. Adm. Code 335.2040.		As needed
E.	Any in 32 Ill. Adm. Code 335.3010	Any radiopharmaceutical identified in 32 Ill. Adm. Code 335.3010.		As needed
F.	Any in 32 Ill. Adm. Code 335.4010	Any radiopharmaceutical identified in 32 Ill. Adm. Code 335.4010.		As needed

\* μCi-microcurie; mCi-millicurie; Ci-Curie; MBq-Megabecquerel; GBq-Gigabecquerel; TBq-Terabecquerel; g-gram; μg-microgram; kg-kilogram

APPROVED BY:

*Steven C. Collins*

Steven C. Collins, Supervisor of Materials Licensing

IL-473-0059

DATE

May 28, 2009

PAGE of PAGES

1 9

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RADIOACTIVE MATERIAL LICENSE

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<u>LICENSEE</u> St. Francis Medical Center	<u>LICENSE NUMBER</u> IL-01361-01	<u>AMENDMENT NUMBER</u> 56	<u>EXPIRATION DATE</u> December 31, 2013
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ITEM	RADIONUCLIDE	CHEMICAL and/or PHYSICAL FORM	MAXIMUM ACTIVITY* PER SOURCE	MAXIMUM POSSESSION LIMIT
G.	Any in 32 Ill. Adm. Code 335.5010	Any radiopharmaceutical identified in 32 Ill. Adm. Code 335.5010.		As needed
H.	Any in 32 Ill. Adm. Code 335.6010	Any sealed source identified in 32 Ill. Adm. Code 335.6010.		As needed
I.	Any in 32 Ill. Adm. Code 335.7010	Any sealed source identified in 32 Ill. Adm. Code 335.7010, excluding remote afterloaders.	1 Ci	As needed
J.	Any in 32 Ill. Adm. Code 330.220(f)(1)	Prepackaged kits.		As needed
K.	Sr-90/Y-90	Sealed Source – BEBIG Model Sr0.S03, not to exceed 12 sources per source train	5 mCi each	60 mCi per train, 120 mCi total
L.	Sr-90/Y-90	Sealed Source – AEAT Model SICW.2, not to exceed 12 sources per source train	5 mCi each	60 mCi per train, 120 mCi total
M.	Sr-90/Y-90	Sealed Source – BEBIG Model Sr0.S03, not to exceed 16 sources per source train	5 mCi each	80 mCi per train, 160 mCi total
N.	Sr-90/Y-90	Sealed Source – AEAT Model SICW.2, not to exceed 16 sources per source train	5 mCi each	80 mCi per train, 160 mCi total
O.	Sr-90/Y-90	Sealed Source – BEBIG Model Sr0.S03, not to exceed 24 sources per source train	5 mCi each	120 mCi per train, 240 mCi total

\* μCi-microcurie; mCi-millicurie; Ci-Curie; MBq-Megabecquerel; GBq-Gigabecquerel; TBq-Terabecquerel; g-gram; μg-microgram; kg-kilogram

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PAGE of PAGES

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IL 473-0059

May 28, 2009

2 9

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<u>LICENSEE</u>	<u>LICENSE NUMBER</u>	<u>AMENDMENT NUMBER</u>	<u>EXPIRATION DATE</u>
St. Francis Medical Center	IL-01361-01	56	December 31, 2013

ITEM	RADIONUCLIDE	CHEMICAL and/or PHYSICAL FORM	MAXIMUM ACTIVITY* PER SOURCE	MAXIMUM POSSESSION LIMIT
P.	Ir-192	Sealed Source – Best Industries Model 81-01	35 mCi each	2.1 Ci
Q.	I-125	Sodium iodohydroxy benzene sulfonate solution		1.0 Ci
R.	Sr-90/Y-90	Sealed Source – AEAT Model SICW.2	5 mCi each	120 mCi per train, 240 mCi total

AUTHORIZED USE:

- A. For use in the Leksell Gamma Knife® Perfexion Gamma Stereotactic Radiosurgery unit for the treatment of humans, including quality assurance and calibration.
- B. One source for use in a MDS Nordion Model GammaMed 12i remote afterloading brachytherapy irradiator unit for the treatment of humans. One source in its shipping container, for possession only, as necessary for source replacement by persons specifically authorized to exchange sources.
- C. For use as shielding in remote afterloading brachytherapy irradiator unit and source exchanger.
- D. For use as calibration and reference sources.
- E. Any medical use identified in 32 Ill. Adm. Code 335.3010.
- F. Any medical use identified in 32 Ill. Adm. Code 335.4010.
- G. Any medical use identified in 32 Ill. Adm. Code 335.5010.
- H. Any medical use identified in 32 Ill. Adm. Code 335.6010.
- I. Any medical use identified in 32 Ill. Adm. Code 335.7010.
- J. *In vitro* testing.

\* μCi-microcurie; mCi-millicurie; Ci-Curie; MBq-Megabecquerel; GBq-Gigabecquerel; TBq-Terabecquerel; g-gram; μg-microgram; kg-kilogram

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 IL 473-0059

May 28, 2009

3 9

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LICENSEE	LICENSE NUMBER	AMENDMENT NUMBER	EXPIRATION DATE
St. Francis Medical Center	IL-01361-01	56	December 31, 2013

AUTHORIZED USE: (continued)

- K. One source train for use in the Novoste Beta-Cath 5F System, Model A1732 (30 mm) for the intravascular treatment of in-stent restenosis in one device, with one device containing a source train for exchange.
- L. One source train for use in the Novoste Beta-Cath 3.5F System, Model A1767 (30 mm) for the intravascular treatment of in-stent restenosis in one device, with one device containing a source train for exchange.
- M. One source train for use in the Novoste Beta-Cath 5F System, Model A1733 (40 mm) for the intravascular treatment of in-stent restenosis in one device, with one device containing a source train for exchange.
- N. One source train for use in the Novoste Beta-Cath 3.5F System, Model A1767 (40 mm) for the intravascular treatment of in-stent restenosis in one device, with one device containing a source train for exchange.
- O. One source train for use in the Novoste Beta-Cath 5F System, Model A1730 (60 mm) for the intravascular treatment of in-stent restenosis in one device, with one device containing a source train for exchange. This device may also be used for clinical research in accordance with investigational protocols approved by the FDA in the treatment of stenosis in hemodialysis grafts.
- P. For use in a three ribbon set containing 6, 10 or 14 sources per ribbon. One ribbon set to be used for the intravascular treatment of in-stent restenosis in a Cordis Checkmate Catheter System and one ribbon set in a shipping container for exchange.
- Q. For use in Proxima Therapeutics Model Gliasite low dose rate brachytherapy system.
- R. One source train for use in the Novoste Beta-Cath 3.5F System, Model A1767 (60 mm) for the intravascular treatment of in-stent restenosis in one device, with one device containing a source train for exchange.

\*  $\mu$ Ci-microcurie; mCi-millicurie; Ci-Curie; MBq-Megabecquerel; GBq-Gigabecquerel; TBq-Terabecquerel; g-gram;  $\mu$ g-microgram; kg-kilogram

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PAGE of PAGES

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IL 473-0059

May 28, 2009

4 9

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RADIOACTIVE MATERIAL LICENSE

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LICENSEE	LICENSE NUMBER	AMENDMENT NUMBER	EXPIRATION DATE
St. Francis Medical Center	IL-01361-01	56	December 31, 2013

CONDITIONS

1. A. Radioactive material shall be used only at the licensee's facilities located at 530 N.E. Glen Oak Avenue, Peoria, Illinois, including the Isotope Storage Room G738A of the Radiation Oncology Service located in the Forest Park Building, in accordance with statements, representations and procedures listed in other conditions of this license.
- B. License Schedule Items D. and F., excluding aerosols and gases, shall be used only at the licensee's facilities located at 5405 North Knoxville Avenue, Peoria, Illinois and at 610 Park Avenue, Pekin, Illinois in accordance with statements, representations and procedures listed in other conditions of this license.
2. A. Radioactive material is authorized for use by, or under the supervision of, the following individual(s) for the materials and uses indicated:

Raymond E. Bertino, M.D.	E., F., G. and H.
Anthony D. Brody, Ph.D., M.D.	F., excluding aerosols and gases
Eric M. Bugaieski, M.D.	E. and F.
Gordon T. Campbell, M.D.	E., F., G. and I.
Charles Chen, M.D.	E., F., G. and H.
Paul W. Cheng, M.D.	F., excluding aerosols and gases, limited to cardiovascular studies
Gerald N. Dixon, M.D.	E. and F.
Kevin M. Fahey, M.D.	F.
Craig A. Fenton, M.D.	F.
George A. Gentry, M.D.	F.
Joseph K. Gerwin, M.D.	E. and F.
Mark Goergen, M.D.	E., F., G. and H.
Brian R. Griffin, M.D.	A.
Jessica A. Guingrich, M.D.	E., F. and H.
Shafik Hanna-Moussa, M.D.	F., excluding aerosols and gases, limited to cardiovascular studies
Bradley A. Johnson, M.D.	F.
Kathleen M. Johnson, M.D.	F.
Rita Hungate, M.D.	E. and F.
Narciso Lobo, M.D.	E. and F.
John O. Martin, M.D.	E. and F.
Donald McElroy, M.D.	F., excluding aerosols and gases

\* μCi-microcuric; mCi-millicuric; Ci-Curie; MBq-Megabecquerel; GBq-Gigabecquerel; TBq-Terabecquerel; g-gram; μg-microgram; kg-kilogram

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IL 473-0059

May 28, 2009

5 9

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STATE OF ILLINOIS  
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LICENSEE	LICENSE NUMBER	AMENDMENT NUMBER	EXPIRATION DATE
St. Francis Medical Center	IL-01361-01	56	December 31, 2013

(Condition 2. continued)

James L. McGee, M.D.	A., B., C., G., I and Q.
James A. McKinney, D.O.	E., F. and H.
R. Parker McRac, Jr., M.D.	F., excluding aerosols and gases
Kenneth P. Moresco, M.D.	F.
Sudhir Mungee, M.D.	F., excluding aerosols and gases, limited to cardiovascular studies
David L. Porter, D.O.	E. and F.
Ronald Rabjohns, M.D.	F., excluding aerosols and gases
Clarissa Rhode, M.D.	F.
Steven A. Roat, M.D.	F.
Robert W. Schmidt, M.D.	F.
Peter E. Shile, M.D.	E. and F.
James R. Smalley, M.D., Ph.D.	F., excluding aerosols and gases, limited to cardiovascular studies
Harry R. Smouse, M.D.	F.
James L. Swischuk, M.D.	F.
Steven J. Ullenius, M.D.	E., F. and H.
Kim Villarreal, M.D.	F.
Lawrence Wang, M.D.	E., F. and H.
Clinton J. Wentz, M.D.	E., F., G., H., I. and J.
Peter A. Williams, M.D.	E. and F.
Anthony Zalduendo, M.D.	B., C., G., I., and K. through P. and R.
Gary S. Zwicky, M.D.	E., F., G. and H.

In addition, radioactive material listed in License Schedule Item D. is authorized for use by or under the supervision of any one of the individuals listed in this condition.

- B. Radioactive material listed in License Schedule Items E. and J. is authorized for use by, or under the supervision of, the following individuals:

Michael Hayes, M.D.	W. Edward Null, M.D.
John Nixon, M.D.	Gregory Simmons, M.D.
Jitendra Patel, M.D.	

3. The Radiation Safety Officer for this license is W. Gregg Devanna.

\*  $\mu$ Ci-microcurie; mCi-millicurie; Ci-Curie; MBq-Megabecquerel; GBq-Gigabecquerel; TBq-Terabecquerel; g-gram;  $\mu$ g-microgram; kg-kilogram

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PAGE of PAGES

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IL 473-0039

May 28, 2009

6 9

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LICENSEE	LICENSE NUMBER	AMENDMENT NUMBER	EXPIRATION DATE
St. Francis Medical Center	IL-01361-01	56	December 31, 2013

4. Radioactive material listed in License Schedule Item A. shall be used for performing calibration and quality assurance checks of radiation therapy unit in accordance with manufacturer's procedures. These procedures shall be performed by, or under the supervision and in the physical presence of W. Gregg Devanna, M.S., Mohamed Ali, M.S., or by persons specifically authorized by the Agency, an Agreement State, a Licensing State or the U.S. Nuclear Regulatory Commission to perform such services.
5.
  - A. Each sealed source possessed under this license shall be tested for leakage and/or contamination as specified in 32 Ill. Adm. Code 340.410. Tests for leakage and/or contamination shall be performed by persons specifically licensed to provide such services.
  - B. This license does not authorize analysis of leak test samples. However, the licensee is authorized to collect leak test samples for analysis by persons specifically authorized by the Agency, an Agreement State, a Licensing State, or the U.S. Nuclear Regulatory Commission to perform such services.
6. The licensee shall decontaminate or restrict access to each area described in 32 Ill. Adm. Code 335.2080(d) for which removable radioactive contamination is found to exceed 2000 dpm/100 cm<sup>2</sup>. This monitoring must be performed to ensure that decontamination was effective or decay reduced the levels adequately. Records of monitoring must contain the information specified in 32 Ill. Adm. Code 335.2080(f).
7. The licensee is authorized to receive, possess and transfer depleted uranium in amounts not greater than 999 kg for use as shielding material.
8. Sealed sources containing radioactive material shall not be opened.
9. Servicing and maintenance of bone densitometer(s) involving the source holder and/or shutter mechanism(s) shall be performed by the manufacturer or by other persons specifically authorized by the Agency, an Agreement State, or the U.S Nuclear Regulatory Commission to perform such services.
10. The licensee shall cease treatment of patients with any low dose rate or high dose rate afterloader if a safety related system of the unit is found inoperative. The licensee shall report to the Agency within 24 hours any malfunction which requires the termination of patient treatments for more than 24 hours and shall submit a written report of the incident and corrective actions within 30 days.

\*  $\mu$ Ci-microcurie; mCi-millicurie; Ci-Curie; MBq-Megabecquerel; GBq-Gigabecquerel; TBq-Terabecquerel; g-gram;  $\mu$ g-microgram; kg-kilogram

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PAGE of PAGES

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May 28, 2009

7 9

IL 473-0059

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LICENSEE	LICENSE NUMBER	AMENDMENT NUMBER	EXPIRATION DATE
St. Francis Medical Center	IL-01361-01	56	December 31, 2013

11. Calibration and quality assurance checks of low dose rate or high dose rate afterloaders shall be performed in accordance with the manufacturer's instruction manual. These procedures shall be performed by, or under the supervision and in the physical presence of W. Gregg Devanna, James J. Duce, Stephen M. Rose, Mohamed Ali, M.S., Hemant Shukla, M.S., or by persons specifically authorized by the Agency, an Agreement State, a Licensing State or the U.S. Nuclear Regulatory Commission to perform such services.
12. Radioactive material listed in License Schedule Items K. through P. and R. shall be used for performing calibration and quality assurance checks of IVB devices in accordance with letters with attachments dated September 24, 2001, October 22, 2001, November 5, 2001 and January 28, 2004. These procedures shall be performed by or under the supervision and in the physical presence of W. Gregg Devanna, M.S., James D. Duce, Stephen Rose, or by persons specifically authorized by the Agency, Agreement State, Licensing State or the U.S. NRC to perform such services.
13. In accordance with 32 Ill. Adm. Code 326 and Reclamation Plan and Cost Estimate submitted on April 9, 2007, the licensee shall maintain a financial assurance arrangement as determined necessary by the Agency to provide for the protection of the public health and safety. The term of the financial assurance arrangement shall be for the period from issuance of the license until termination of the license by the Agency in accordance with 32 Ill. Adm. Code 330.320. The Reclamation Plan and Cost Estimate is to be evaluated periodically by the licensee to reflect current costs and changes to operations. If warranted, the financial assurance arrangement shall be updated and submitted to the Agency for review and approval.
14. In addition to the possession limits referenced in the license schedule, the licensee shall further restrict possession of radionuclides, excluding License Schedule Item A., listed in the table below to the quantities noted within the table. Sum of fractions for the radionuclides listed below shall not exceed unity:

<u>Radionuclide</u>	<u>Quantity (curies)</u>	<u>Radionuclide</u>	<u>Quantity (curies)</u>
Am-241	16	Pm-147	10,800
Am-241:Bc	16	Pu-238	16
Cf-252	5.4	Pu-239:Be	16
Cm-244	13.5	Ra-226	10.8
Co-60	8.1	Se-75	54
Cs-137	27	Sr-90 (Y-90)	270
Gd-153	270	Tm-170	5,400
Ir-192	21.6	Yb-169	81

\*  $\mu$ Ci-microcurie; mCi-millicurie; Ci-Curie; MBq-Megabecquerel; GBq-Gigabecquerel; TBq-Terabecquerel; g-gram;  $\mu$ g-microgram; kg-kilogram

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PAGE of PAGES

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 IL 473-0039

May 28, 2009

8 9

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St. Francis Medical Center	IL-01361-01	56	December 31, 2013

15. Except as specifically provided otherwise by the license, the licensee shall possess and use radioactive material described in all schedules of this license in accordance with statements, representations and procedures contained in, referenced in, or enclosed with the documents listed below. The regulations contained in 32 Ill. Adm. Code: Chapter II, Subchapters b and d shall govern unless the statements, representations and procedures in the licensee's application and correspondence are more restrictive than the regulations. The most recent statements, representations and procedures listed below shall govern if they conflict with previously submitted documents.

- A. Applications dated December 15, 1998 and September 26, 2008.
- B. Letters, with attachments, dated September 27, 1999, May 19, 2000, October 27, 2000, December 4, 2000, January 19, 2001, February 21, 2001, March 20, 2001, May 2, 2001, September 24, 2001, October 22, 2001, November 5, 2001, December 19, 2001, January 14, 2002, June 18, 2002, August 19, 2002, February 27, 2003, November 20, 2003, January 7, 2004, October 1, 2004, January 25, 2005, November 5, 2007, December 14, 2007, February 4, 2008 and March 20, 2009.
- C. Telefacsimiles dated October 1, 1999, August 10, 2000, January 2, 2004, and February 7, 2008.
- D. Telefacsimiles received August 11, 2000 and August 17, 2000.
- E. Letters dated September 24, 2001, December 19, 2003, ~~January 26, 2004, January 28, 2004 and February 23, 2004.~~
- F. Letters dated April 25, 2008 and October 25, 2005 in response to the Agency's letters with attachments dated September 20, 2005 and March 27, 2008 regarding "Increased Controls for Licensees that Possess Sources Containing Radioactive Material Quantities of Concern" and as subsequently revised.

SCC:RDH:kje

\*  $\mu$ Ci-microcurie; mCi-millicurie; Ci-Curie; MBq-Megabecquerel; GBq-Gigabecquerel; TBq-Terabecquerel; g-gram;  $\mu$ g-microgram; kg-kilogram

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PAGE of PAGES

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IL 473-0019

May 28, 2009

9 9

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# CERTIFICATE OF TRAINING

awarded to:

**Stephen Rose, Medical Physicist**  
Hannibal Regional Hospital, James Cary Cancer Center  
Hannibal, MO

for completing the following course:

**Oncentra Brachytherapy**

date

**May 18-21, 2009**

Presented by:

Nucletron Corporation, 8671 Robert Fulton Drive, Columbia, Maryland

**Lauren Allaire**  
**Instructor**

25 MDCB Credits, MDCB Ref # MDCB108462  
15.5 Category A CE, ASRT Ref #MDZ0148008



## Nucletron Training Seminar

Institution: Hannibal Regional HospitalCity, State/Province, Zip: Hannibal, MO 63401**1 Teaching Aids Used**User's Manual   
Applicators and Accessories   
Source Container and Dummy Sources   
Other **2 Topics Covered**Explanation of Remote Afterloading   
Explanation of Radiation Protection **3 Applications**Bronchus   
Interstitial   
Intracavitary   
Intraoperative **4 Applicators/Accessories**Bronchus   
GYN   
Esophagus   
Interstitial   
Other **5 Equipment Operation**Treatment Unit   
Handling   
Power Requirements   
Console   
Treatment   
Start   
Interrupt   
Emergency Stop   
Alarm and Error Codes **Radioactive Source:** IR-192**6 Receiving**Unpacking   
Acceptance   
Calibration   
Installation **7 Shipping**Release   
Packing   
Documents   
Measurements Emergency Procedures 

All areas marked were covered during training

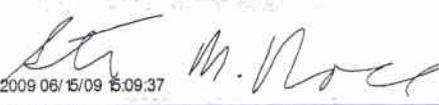
Mon Jun 2009 06/15/09 5:08:53

Instructor 

Field Service Engineer

Title

Mon Jun 2009 06/15/09 5:09:37

Department Head 

Physicist

Title

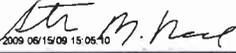
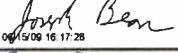
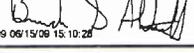
\* List of all attendees accompanies this form

### Nucletron Training Seminar Attendance Registration

 Hospital: Hannibal Regional Hospital      Date: Monday, June 15, 2009

 Course: Emergency In-Service Training

 Instructor: Chris Sidwell

	Name	Department	Title	Signature
1	Robert Hess	Radiation Oncology	Chief Therapist	 <small>Mon Jun 2009 06/15/09 15:04:54</small>
2	Stephen M. Rose	Radiation Oncology	Physicist	 <small>Mon Jun 2009 06/15/09 15:06:10</small>
3	James Buckley	Radiation Oncology	Dosimetrist	 <small>Mon Jun 2009 06/15/09 15:10:11</small>
4	Dr. Joseph Bean	Radiation Oncology	Radiation Oncologist	 <small>Mon Jun 2009 06/15/09 16:17:28</small>
5	Brenda Althoff	Radiation Oncology	Therapist	 <small>Mon Jun 2009 06/15/09 15:10:28</small>
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I certify that the above individuals have been instructed in Equipment Operation, Safety Precautions and Emergency Procedures in accordance with Nucletron Corporation Training Standards.

 Instructor Signature:   
Mon Jun 2009 06/15/09 16:05:02

 Instructor Title: Field Service Engineer

**OSF**

SAINT FRANCIS MEDICAL CENTER

*A commitment to life.*

May 1, 2009

To Whom It May Concern:

I am writing this letter to affirm that Mr. Stephen Rose, MS, DABR, a Medical Physicist certified in Therapeutic Radiation Oncology Physics by the American Board of Radiology, was a substantial participant in the brachytherapy program at OSF Saint Francis Medical Center in Peoria, Illinois from 2003 to 2009.

During this time Mr. Rose operated in the capacity of an Authorized Medical Physicist for the Gamma Med 12i High Dose Rate Remote Afterloader (Illinois Radioactive Materials License IL-1361-01). He was the primary Physicist for the treatment planning and administration of over five hundred (500) patient treatments. Modalities included multi-channel prostate brachytherapy, gyn cylinders and tandem & ovoid, mammosite, lung, esophagus, and multi-planar breast implants.

Mr. Rose also participated in approximately twenty source exchanges during his time at OSF Saint Francis Medical Center. Associated with the source exchanges, he performed daily, monthly, quarterly, semi-annual, and annual quality assurance procedures as required by state and federal regulations.

Sincerely,

W. Gregg Devanna, MS, DABR  
Chief Medical Physicist / RSO  
OSF Saint Francis Medical Center

7610

  
JAMES E. CARY  
CANCER CENTER

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