

Oakwood Hospital – Wayne
33155 Annapolis
Wayne, MI 48184



734-467-4000

August 24, 2017

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

Re: Nuclear Materials License No. 21-32643-01, 2050 Leasing Company
Notice of Transfer to Oakwood Hospital – Annapolis Center, License No. 21-11457-02
Request for Termination of License No. 21-32643-01, 2050 Leasing Company

Dear Materials Licensing Branch Chief,

2050 Leasing Company respectfully submits for your approval this notice of transfer of control of nuclear material held under its Nuclear Material License No. 21-32643-01 to Oakwood Hospital – Annapolis Center¹, Nuclear Material License No. 21-11457-02. The transfer is intended to take effect October 1, 2017. Effective October 1, 2017, 2050 Leasing Company will no longer handle nuclear material and, therefore, also submits NRC Form 314 to seek termination of Nuclear Materials License No. 21-32643-01.

To facilitate this request, 2050 Leasing Company and Oakwood Hospital – Annapolis Center submit the following information pursuant to NUREG 1556:

1. Description of Transaction. In 2014, Oakwood Hospital – Annapolis, an operating unit of Oakwood Healthcare, Inc., was involved in an affiliation with William Beaumont Hospital and Botsford General Hospital (through its parent Zieger Health Care Corporation), creating a health system known as Beaumont Health (the “Affiliation”). By letter dated July 23, 2014, 2050 Leasing Company and Oakwood Healthcare, Inc. provided notice to the NRC regarding the Affiliation, and on October 20, 2014, the NRC issued its approval, noting that there would be no “change to the licensee name, licensed material, persons using the licensed material, location or use of licensed material, or persons responsible for the licensee’s radiation safety health program” regarding License No. 21-32643-01 held by 2050 Leasing Company.

¹ Please note that a notice of name change has been submitted for License Number 21-11457-02. The new name is “Oakwood Healthcare, Inc. d/b/a/ Beaumont Hospital – Wayne.”

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Since the Affiliation, Beaumont Health has been reviewing all activities being conducted under the Nuclear Material Licenses held by its various subsidiaries and affiliated entities. As a result of this review, the Beaumont Health proposes to transfer the control of nuclear material held under Nuclear Material License No. 21-32643-01 by 2050 Leasing Company, to Oakwood Hospital – Annapolis Center, Nuclear Material License No. 21-11457-02. After October 1, 2017, 2050 Leasing Company will no longer be handling nuclear material, and desires to terminate Nuclear Materials License No. 21-32643-01, effective October 1, 2017. NRC Form 314 is attached for this purpose.

2. Changes in Personnel. The transfer of control of nuclear materials from 2050 Leasing Company Nuclear Material License No. 21-32643-01 to Oakwood Hospital – Annapolis Center, Nuclear Material License No. 21-11457-02, will not result in any changes in personnel responsible for the Radiation Safety Program, authorized users, or any other persons identified on Nuclear Material License No. 21-11457-02 as having responsibility for radiation safety or authorized to use the licensed material.

4. Surveillance Records. The surveillance programs in place under both Nuclear Material Licenses No. 21-32643-01 and 21-11457-02, have been conducted in accordance with NRC standards. Oakwood Hospital – Annapolis Center will continue to perform, document and review all required surveillance after October 1, 2017, in accordance with NRC standards, and will assume custody of all surveillance records associated with Nuclear Material License No. 21-32643-01 to the extent required by NRC standards.

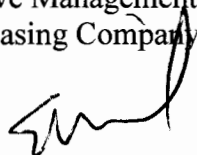
5. Transferee's Commitment to Abide by Transferor's Commitments. Oakwood Hospital – Annapolis Center commits to abide by all constraints, license conditions, requirements, representations, and commitments identified in and attributed to Nuclear Material License No. 21-32643-01 currently held by 2050 Leasing Company. Neither 2050 Leasing Company nor Oakwood Hospital – Annapolis Center is aware of any open enforcement actions or investigations regarding their respective Nuclear Material Licenses.

Thank you in advance for your assistance with this request. I can be reached at 734-892-2712 or cherry_hill-manage@SBCglobal.net if you have any questions.

Respectfully Submitted,



Sarju Shah, M.D.
Executive Management
2050 Leasing Company



Eric W. Widner, FACHE | President
Beaumont Hospital - Wayne
Administrator, Core Operations Imaging, Beaumont Health

NRC Form 314 – Attachment, Section B, Item 2.b

Licensee: 2050 Leasing Company
License Number: 21-32643-01

Transfer of radioactive materials will take place as follows:

On October 1, 2017, 2050 Leasing Company will transfer all radioactive materials to recipient Oakwood Hospital – Annapolis Center*, License Number 21-11457-02.

Contact Person for Recipient License Number 21-11457-02:

Nelson Perugi, RT
Manager, Imaging Services
Beaumont Hospital – Wayne
33155 Annapolis Road
Wayne, MI 48184
734-454-8029
Nelson.Perugi@beaumont.org

* Please note that a notice of name change has been submitted for License Number 21-11457-02. The new name is “Oakwood Healthcare, Inc. d/b/a/ Beaumont Hospital – Wayne.”

CERTIFICATE OF DISPOSITION OF MATERIALS

PLEASE READ THESE INSTRUCTIONS BEFORE COMPLETING NRC FORM 314.

Subpart E of 10 CFR Part 20 establishes the radiological criteria for license terminations/decommissioning of facilities licensed under 10 CFR Parts 30, 40, 50, 60, 61, 70, and 72, as well as other facilities subject to the Commission's jurisdiction under the Atomic Energy Act of 1954, as amended, and the Energy Reorganization Act of 1974, as amended.

INSTRUCTIONS

Section B, Item 2.

Licensees should describe the specific radioactive material transfer actions. If radioactive wastes were generated in terminating this license, the licensee should describe the disposal actions taken, including the disposition of low-level radioactive waste, mixed waste, greater-than-Class-C waste, and sealed sources.

Section B, Item 2.a.

The information provided concerning the transfer of radioactive material to another licensee should specify the date of the transfer, the name of the licensee recipient, an individual contact name and telephone number for the licensee recipient, and the recipient's NRC or Agreement State license number.

Section B, Item 2.b.

For disposal of radioactive materials, licensees should describe the specific disposal method or procedure (e.g., decay-in-storage). For those cases when radioactive materials are disposed of by a licensed disposal site or by a waste contractor, the licensee should specify the name, address, and telephone number of the licensed disposal site operator or waste contractor.

Section B, Item 2.c.

"Residual radioactivity," as defined in 10 CFR 20.1003, means radioactivity in 'areas' (structures, materials, soils, etc.) remaining as a result of activities (licensed and unlicensed) under the licensee's control from sources used by the licensee, excluding background radiation. ALARA is defined in 10 CFR 20.1003.

FILE CERTIFICATES AS FOLLOWS:

IF YOU ARE LOCATED IN:

ALABAMA, CONNECTICUT, DELAWARE, DISTRICT OF COLUMBIA, FLORIDA, GEORGIA, KENTUCKY, MAINE, MARYLAND, MASSACHUSETTS, NEW HAMPSHIRE, NEW JERSEY, NEW YORK, NORTH CAROLINA, PENNSYLVANIA, PUERTO RICO, RHODE ISLAND, SOUTH CAROLINA, TENNESSEE, VERMONT, VIRGINIA, VIRGIN ISLANDS, OR WEST VIRGINIA, SEND CERTIFICATES TO:

LICENSING ASSISTANT SECTION
NUCLEAR MATERIALS SAFETY BRANCH
U.S. NUCLEAR REGULATORY COMMISSION, REGION I
2100 RENAISSANCE BOULEVARD, SUITE 100
KING OF PRUSSIA, PA 19406-2713

ILLINOIS, INDIANA, IOWA, MICHIGAN, MINNESOTA, MISSOURI, OHIO, OR WISCONSIN, SEND CERTIFICATES TO:

MATERIALS LICENSING SECTION
U.S. NUCLEAR REGULATORY COMMISSION, REGION III
2443 WARRENVILLE ROAD, SUITE 210
LISLE, IL 60532-4352

IF YOU ARE LOCATED IN:

ALASKA, ARIZONA, ARKANSAS, CALIFORNIA, COLORADO, HAWAII, IDAHO, KANSAS, LOUISIANA, MISSISSIPPI, MONTANA, NEBRASKA, NEVADA, NEW MEXICO, NORTH DAKOTA, OKLAHOMA, OREGON, PACIFIC TRUST TERRITORIES, SOUTH DAKOTA, TEXAS, UTAH, WASHINGTON, OR WYOMING, SEND CERTIFICATES TO:

MATERIAL RADIATION PROTECTION SECTION
U. S. NUCLEAR REGULATORY COMMISSION, REGION IV
1600 E. LAMAR BOULEVARD
ARLINGTON, TX 76011-4511



CERTIFICATE OF DISPOSITION OF MATERIALS

Estimated burden per response to comply with this mandatory collection request: 30 minutes. This submittal is used by NRC as part of the basis for its determination that the facility is released for unrestricted use. Send comments regarding burden estimate to the FOIA, Privacy, and Information Collections Branch (T-5 F53), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by e-mail to Infocollections.Resource@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0028), Office of Management and Budget, Washington, DC 20503. If a means used to impose an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.

LICENSEE NAME AND ADDRESS

2050 Leasing Company
2050 Haggerty Road, Suite 200
Canton, Michigan 48187

LICENSE NUMBER

21-32643-01

DOCKET NUMBER

030-37408

LICENSE EXPIRATION DATE

April 30, 2017 - Renewal Pending

A. LICENSE STATUS (Check the appropriate box)

- ☐ This license has expired. ☒ This license has not yet expired; please terminate it.

B. DISPOSAL OF RADIOACTIVE MATERIAL

(Check the appropriate boxes and complete as necessary. If additional space is needed, provide attachments)

The licensee, or any individual executing this certificate on behalf of the licensee, certifies that:

- ☐ 1. No radioactive materials have ever been procured or possessed by the licensee under this license.
☒ 2. All activities authorized by this license have ceased, and all radioactive materials procured and/or possessed by the licensee under this license number cited above have been disposed of in the following manner:
☒ a. Transfer of radioactive materials to the licensee listed below:

Please see attachment.

- ☐ b. Disposal of radioactive materials:

☐ 1. Directly by the licensee:

☐ 2. By licensed disposal site:

☐ 3. By waste contractor:

- ☐ c. All radioactive materials have been removed such that any remaining residual radioactivity is within the limits of 10 CFR Part 20, Subpart E, and is ALARA.

C. SURVEYS PERFORMED AND REPORTED

- ☐ 1. A radiation survey was conducted by the licensee. The survey confirms:
☒ a. the absence of licensed radioactive materials
☐ b. that any remaining residual radioactivity is within the limits of 10 CFR 20, Subpart E, and is ALARA.
☐ 2. A copy of the radiation survey results:
☒ a. is attached; or ☐ b. is not attached (Provide explanation); or ☐ c. was forwarded to NRC on: _____ Date _____
☐ 3. A radiation survey is not required as only sealed sources were ever possessed under this license, and
☐ a. The results of the latest leak test are attached; and/or ☐ b. No leaking sources have ever been identified.

The person to be contacted regarding the information provided on this form:

NAME	TITLE	TELEPHONE (Include Area Code)	E-MAIL ADDRESS
Ashok Jain, M.D.	Radiation Safety Officer	(313) 336-5010	Ashok.Jain@beaumont.org

Mail all future correspondence regarding this license to:

Nelson Perugi, RT, Manager, Imaging Services, Beaumont Hospital - Wayne, 33155 Annapolis Road, Wayne, MI 48184

C. CERTIFYING OFFICIAL

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

PRINTED NAME AND TITLE	SIGNATURE	DATE
Sarju Shah, M.D. Executive Management - 2050 Leasing Company		8/31/17

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 RESPECT. 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 JURISDICTION.

Date: 06/08/17

Location: 2050 Leasing Company



NUCLEAR MEDICINE AUDIT

IDENTIFICATION

Licensee: 2050 Leasing Company

License Number: 21-32643-01

Expiration Date: 04/30/2017

Latest Amend Number: 1

Amendment Date: 10/20/2014

Authorized User(s): Ashok Jain, M.D.

Actions Filed: License Renewal Submitted; Timely Receipt notification received

Radiation Safety Officer: Ashok Jain, M.D.

RSO - Brachytherapy:

Most Recent State Inspection:

Most Recent Inspection - NRC: 01/18/08

State Registration Number: 2037-1

Registration Date 02/06/07

Accreditation Expiration Date:

Reporting Physicist: SAU

DOCUMENTS AND NOTICES

NRC

10 CFR 19, 20 and 35 - Current, Posted or Referenced and on file?	10 CFR 19.11	<u>YES</u>
License + Application and Amendments - Posted or Referenced and on file?	10 CFR 19.11	<u>YES</u>
"Notice of Violation", Proposed Civil Penalty or "order" - Posted?	10 CFR 19.11	<u>N/A</u>
'Notice to Employees' form NRC-3 - Current and Posted?	10 CFR 19.11	<u>YES</u>
Management agreement(s) for amend, renewals, AU's and RPP changes?	10 CFR 35.24(a)	<u>YES</u>
Management/RSO "Letter of Understanding" - Available?	10 CFR 35.24(b)(g)	<u>YES</u>
Statement of RSO Authority, Duties and Responsibilities - Available?	10 CFR 35.24(e)	<u>YES</u>

STATE

Operating Procedures - Posted or Referenced and on file?	<u>N/A</u>
Radioactive Materials Registration Certificate - Current and on file?	<u>N/A</u>
Ionizing Radiation Rules - Posted or Referenced and on file?	<u>N/A</u>
'Notice of Violation', Proposed Civil Penalty or 'Order' - Posted?	<u>N/A</u>
State 'Notice to Employees' form - Posted?	<u>N/A</u>

Date: 06/08/17

Location: 2050 Leasing Company



POSTING AND LABELING

Doors and/or Rooms - Properly Posted?	10 CFR 20.1902	<u>YES</u>
Areas - Properly Posted?	10 CFR 20.1902	<u>YES</u>
Sealed Source Area/Rm. Exemption <5 mR/hr @ 30 cm?	10 CFR 20.1903(c)	<u>N/A</u>
Containers - Properly Labeled?	10 CFR 20.1904(a) and 35.69	<u>YES</u>
Syringes or Syringe Shields - Properly Labeled?	10 CFR 35.69	<u>YES</u>

AUTHORIZED RADIONUCLIDE USE AND POSSESSION

<u>NRC Authorized Radionuclides</u>	<u>Possession Limits</u>	<u>State Registered Radionuclides</u>	<u>Possession Limits</u>
10CFR35.100		Fluorine-18	
10CFR35.200	<u>As needed</u>	Cobalt-57	
Xenon Excluded		Sealed	<u>*As needed</u>
Generators Excluded		Unsealed	
10CFR35.300		Gallium-67	
Thyroid CA Tx Excluded		Indium-111	
10CFR35.400		Iodine-123	
10CFR35.500		Thallium-201	<u>*As needed</u>
10CFR35.600		Palladium-103	
10CFR35.1000		*NRC regulated	
10CFR31.11			
Phosphorus-32			
Strontium-90			
Cesium-137			
Gadolinium-153			
Iridium-192			
Uranium-238 depleted			

Radioactivity in possession within allowed limits?		<u>YES</u>
Unit doses properly measured and documented?	10 CFR 35.63(a)(b) and 35.2063	<u>YES</u>
Non-unit doses properly measured and documented?	10 CFR 35.63(c) and 35.2063	<u>N/A</u>
Prescribed dosage list or dosage range available/posted and followed?	10 CFR 35.63(d)	<u>YES</u>
Accidental administrations properly documented?		<u>N/A</u>
Mo-99 and or Sr-82/Sr-85 assays properly recorded?	10 CFR 35.204	<u>N/A</u>
IND protocols properly managed and documented?		<u>N/A</u>

SECURITY OF RADIOACTIVE MATERIAL

Rooms/Areas containing Stored RAM actively secured?	10 CFR 20.1801	<u>YES</u>
Stored RAM, i.e., Sharps Containers, actively secured from removal?	10 CFR 20.1801	<u>YES</u>
Control and constant surveillance maintained over RAM NOT in storage?	10 CFR 20.1802	<u>YES</u>

Date: 06/08/17

Location: 2050 Leasing Company



RADIATION PROTECTION PROGRAM

Radiation Protection Program (RPP) Developed and Implemented?	10 CFR 20.1101(a)	<u>YES</u>
RPP Procedures Documented and Available for Review?	10 CFR 20.2102	<u>YES</u>
RPP Reflects Current Operations?		<u>YES</u>
Annual Review of Written RPP Documented?	10 CFR 20.1101(c) and 20.2102(a)(1)	<u>YES</u>
Annual Review Date:	<u>01/26/17</u>	
Annual Review of Operational RPP Documented?	10 CFR 20.1101 and 10CFR 35.24	<u>YES</u>
Annual Review Date:	<u>01/04/17</u>	
Audits of Radiation Protection Program Documented?	10 CFR 20.2102(a)(2)	<u>YES</u>
Radiation Safety Committee established as per requirements of 10 CFR 35.24(f)?		<u>N/A</u>
Radiation Safety Committee membership in accordance with 10 CFR 35.24(f)?		<u>N/A</u>
Last Radiation Safety Committee meeting:		
Procedures and Engineering Controls for ALARA?	10 CFR 20.1101(b)	<u>YES</u>
Periodic Performance Reviews of ALARA?	10 CFR 20.1101(b)	<u>YES</u>
Environmental Airborne Emissions TEDE <10 mrem/yr?	10 CFR 20.1101(d)	<u>YES</u>

OPERATING PROCEDURES

Radiation Safety Regulations - Posted?		<u>YES</u>
Emergency Liquid Spill Procedures - Posted?		<u>YES</u>
Emergency Xenon-133 Spill Procedures and Clearance Times/Posted?	10 CFR 20.1101(d)	<u>N/A</u>
Aerosol Precautions - Current and Followed?	10 CFR 20.1101(d)	<u>N/A</u>
Documentation of Radioactive Spills?		<u>N/A</u>
Radioactive material order and delivery procedures available?	10 CFR 20.1906(a)	<u>YES</u>
Opening Packages of Radioactive Material - Current and Followed?	10 CFR 20.1906(e)	<u>YES</u>
Radioactive Waste Disposal - Current and Followed?	10 CFR 20.2001	<u>YES</u>

PERFORMANCE AND DOCUMENTATION OF REQUIRED PROCEDURES

Survey and monitoring reasonable to evaluate levels, conc. and hazards?	10 CFR 20.1501(a)(2)	<u>YES</u>
Hands and clothing monitoring (mR/hr)?	NUREG 1556.V9	<u>YES</u>
Daily surveys written directive prep and admin areas with surveyor name?	10 CFR 35.70(a)	<u>N/A</u>
Sealed source safety and handling instructions available and followed?	10 CFR 35.67(a)	<u>YES</u>
Semiannual sealed source leak test with RSO signature?	<u>03/15/17</u> <u>09/29/16</u>	<u>YES</u>
10 CFR 35.67(b)	<u>06/22/16</u> <u>12/14/16</u>	
Semiannual inventory of sealed sources with RSO signature?	<u>03/15/17</u> <u>09/29/16</u>	<u>YES</u>
10 CFR 35.67(g)	<u>06/22/16</u> <u>12/14/16</u>	

Date: 06/08/17

Location: 2050 Leasing Company



PERSONNEL MONITORING

Whole body badges?		<u>YES</u>
Extremity TLD's Available and Worn Appropriately?		<u>YES</u>
External Occupational Exposure Levels Reviewed?	10 CFR 20.1201	<u>YES</u>
ALARA I	ALARA II	Reportable:
Fetal Exposure to Declared Pregnancies?	10 CFR 20.1208	<u>N/A</u>
Annual reports provided to supervised staff?	10 CFR 19	<u>YES</u>
Previous Occupational Dose - Records Available?	10 CFR 20.1201(f) and 2104	<u>*</u>
Internal Occupational Dose Monitoring Required or Performed?	10 CFR 20.1502(b)	<u>N/A</u>
Sum of External and Internal Dose Required?	10 CFR 20.1202	<u>N/A</u>
Records of compliance with TEDE to Public (100 mrem)?	10 CFR 20.2107	<u>YES</u>

TRAINING PROGRAM

Supervised staff familiar with operating procedures and license conditions?	10 CFR 35.27	<u>YES</u>
Supervised staff familiar with emergency spill procedures?	10 CFR 35.27	<u>YES</u>
Supervised staff familiar with radiation protection procedures?	10 CFR 35.27	<u>YES</u>
Supervised staff familiar with written directive procedures?	10 CFR 35.27	<u>N/A</u>
New supervised staff instructed?	10 CFR 19.12	<u>YES</u>
Workers likely to receive >100 mrem/year instructed?	10 CFR 19.12	<u>YES</u>

Technical Staff:	Annual: <u>3/17</u>	Hazmat: <u>03/17</u>	Written Directive:
			Misha <u>3/08/17</u>
		Stress: <u>3/17</u>	Julie <u>3/13/17</u>
		Clerical: <u>3/17</u>	Housekeeping <u>5/16 DUE</u>

GENERAL HEALTH PHYSICS

Supervised staff practice safe handling techniques, i.e. tongs?		<u>YES</u>
Supervised staff wear buttoned lab coats or other protective clothing?	NUREG-1556 Vol. 9	<u>YES</u>
Supervised staff wear gloves as appropriate?	NUREG-1556 Vol. 9	<u>YES</u>
Supervised staff use syringe shields as appropriate?	NUREG-1556 Vol. 9	<u>YES</u>
Work areas appropriate for radiation safety purposes?	10 CFR 20.1406	<u>YES</u>
Storage areas appropriate for radiation safety purposes?	10 CFR 20.1406	<u>YES</u>
Refrigerator Available?		<u>N/A</u>
Fume Hood Available and Operational?		<u>N/A</u>
Consolidated "Spill Kit" available?		<u>YES</u>
Area Shielding Available and Appropriate:		
Lead Bricks	<u>NO</u>	Lead Vial Containers <u>YES</u>
Syringe Shields	<u>YES</u>	Lead Syringe Carriers <u>YES</u>
Lead-Glass Face Shield	<u>YES</u>	Leaded Waste Containers <u>YES</u>

Date: 06/08/17

Location: 2050 Leasing Company



RADIOACTIVE MATERIAL PACKAGE RECEIPT

Visual Inspection?		<u>YES</u>
Radiation Level surveys (mR/hr) with Trigger Levels:		
One (1) meter or Three (3) feet?	49 CFR 173.441	<u>YES</u>
Radioactive Contamination Monitoring (dpm/300 cm ²) with Trigger Levels:		
Wipe test 300 cm ² external package surface < 22 dpm/cm ² ?	49 CFR 173.443	<u>YES</u>

WASTE DISPOSAL

Return to supplier used?		<u>YES</u>
Survey external package surface appropriate for DOT labeling?	10 CFR 71	<u>YES</u>
Wipe test 300 cm ² external package surface <22 dpm/cm ² ?	49 CFR 173.443	<u>YES</u>
Confirmation of sealed source return from supplier?		<u>N/A</u>
Transfer of Radioactive Material to Authorized Recipient used?	10 CFR 20.2001(a)(1)	<u>N/A</u>
Manifest Tracking System Available?	10 CFR 20.2006(a)(2)	<u>N/A</u>
Disposal by Decay in Storage used?	10 CFR 20.2001(a)(2) and 35.92	<u>YES</u>
Waste Tracking System Available?		<u>YES</u>
Waste Segregated by half-life?		<u>YES</u>
Radiation levels at background at final disposal?	10 CFR 35.92(a)(1)	<u>YES</u>
Release in Effluents used?	10 CFR 20.2001(a)(3)	<u>N/A</u>
Effluent Conc. (uCi/ml) below Table2, Appendix B 10 CFR 20?		<u>N/A</u>
Documented DAC calculations for Xe-133, Tc-99m DTPA aero. and I-131 available?		<u>N/A</u>
Last Ventillation Evaluation:		
Xenon trap monitoring (uCi)?	10 CFR 20.1101(d)	<u>N/A</u>
Release into Sanitary Sewerage used?	10 CFR 20.2003	<u>N/A</u>
Average monthly volume of water released is known?	10 CFR 20.2003	<u>N/A</u>
Sewer Conc. (uCi/ml/month) below Table 3, Appendix B 10 CFR 20?		<u>N/A</u>
<5 Ci of H-3 and <1 Ci of C-14 and < 1 Ci all other released?	10 CFR 20.2003(a)(4)	<u>N/A</u>
Disposal of H-3 and C-14 as "Deregulated Waste"?	10 CFR 20.2005	<u>N/A</u>
Appropriate documentation to confirm deregulated status available?		<u>N/A</u>
Labels Defaced or Removed Prior to Disposal?	10 CFR 20.1904(b) and 35.92(b)	<u>YES</u>

BREAST-FEEDING

Breast feeding release criteria known to staff and/or posted?	<u>YES</u>
Breast-feeding instructions provided and release records on file?	10 CFR 35.75(d)

FACILITY DECOMMISSIONING

Recordkeeping requirements of Decommissioning on file?	10 CFR 30.35(g)(i-iv) <u>N/A</u>
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Dose Calibrator Instrument Evaluation

Licensee: 2050 Leasing Company

Date: 06/08/17

Model #: CRC-15W

Instrument ID:

Serial #: 171971

Installation Date:

Calibration in accordance with manufacturers recommendations 10 CFR 35.60(b) YES

Constancy checks on all commonly used settings YES

Linearity tests acceptable (required quarterly)? YES

First quarter: 03/15/17 Second quarter: 06/08/17

Third quarter: 09/29/16 Fourth quarter: 12/14/16

Accuracy tests acceptable? 06/08/17 YES

Geometrical variation test acceptable? 07/03/07 YES



Well Counter and Uptake Probe Instrument Evaluation

Licensee: 2050 Leasing Company

Date: 06/08/17

Model #: CRC-15W

Instrument ID:

Serial #: 171971

Installation Date:

Instrument: Well Counter

FWHM evaluated and acceptable:

N/A

Chi-square reproducibility evaluated and acceptable:

N/A

Energy Calibration evaluated and acceptable:

06/08/17

YES

Radiation Detection Efficiency:

Radionuclide: Cs-137

MDA for Cs-137 :

362.0 dpm

Date Completed: 09/29/16

Conversion Factor:

3.61 dpm/cpm

Radionuclide: Co-57

MDA for Co-57 :

214.0 dpm

Date Completed: 09/29/16

Conversion Factor:

1.18 dpm/cpm

Wipe Testing:

Generic Conversion Factor: 2.0 dpm/cpm

Surface Contamination Trigger Levels

Restricted Areas: 2000.0 dpm/100 cm²

Unrestricted Areas: 2000.0 dpm/100 cm²

Package Receipt: 7200.0 dpm/300 cm²

Dose Calibrator Linearity Test

 Licensee: 2050 Leasing Company

 Date: 06/08/17

 Model #: CRC-15W

 Calicheck Serial #: A1070

 Serial #: 171971

 Performed by: Sharon Updike

A Tube	B Displayed Activity mCi	C Calibration Factor	D Product of B x C mCi
Black	32.2	1.00	32.20
Black/Red	18.5	1.72	31.82
Black/Orange	10.59	3.08	32.62
Black/Yellow	3.48	9.66	33.62
Black/Green	1.17	28.46	33.30
Black/Blue	0.383	89.41	34.24
Black/Purple	0.167	182.20	30.43
Black/Purple/Red	0.090	336.36	30.27
Black/Purple/Orange	0.053	586.59	31.09
Black/Purple/Yellow	0.018	1781.48	32.07

Sum Of Entries from Column D: 321.65
 Number Of Entries from Column B: 10
 Average Value: 32.17

Upper Limit: 35.38

Lower Limit: 28.95

Results: Pass

RADIATION SAFETY OFFICER: _____



Sealed Source Inventory

Licensee: 2050 Leasing Company

Date: 06/08/17

Performed by: Sharon Updike

Nuclide	Type	Location	M/N	S/N	Manufacturer
Cs-137	Vial	Hot Lab	RV-137-200U	1218-83-5	
Calibration Activity:		185 uCi	Calibration Date: 08/01/07	Current Activity	147.4 uCi
Ba-133	Vial	Hot Lab	RV-133-250U	1218-68-10	
Calibration Activity:		250 uCi	Calibration Date: 06/01/07	Current Activity	129.0 uCi
Cs-137	Rod	Hot Lab	GF-0008	1212-27-61	
Calibration Activity:		0.5 uCi	Calibration Date: 07/01/07	Current Activity	0.397 uCi
Cs-137	Disk	Meter	NONE	977	
Calibration Activity:		1 uCi	Calibration Date: 03/07/07	Current Activity	0.789 uCi

SEALED SOURCE AMBIENT EXPOSURE SURVEY

Meter: Ludlum GM - hot lab

Max Reading: 0.04 mR/hr

RADIATION SAFETY OFFICER: _____



Sealed Source Leak Test

Licensee: 2050 Leasing Company

Date: 06/08/17

Performed by: Sharon Updike

Nuclide	Type	Calibration Activity	Calibration Date	Location	M/N	S/N
Cs-137	Vial	185.1 uCi	08/01/07	Hot Lab	RV-137-200U	1218-83-5
Current Activity:		147.4uCi				
Ba-133	Vial	249.7 uCi	06/01/07	Hot Lab	RV-133-250U	1218-68-10
Current Activity:		129.04uCi				

Comment: The sources listed above were leak tested using a dry wipe technique and were found to have less than 0.005 uCi removable activity. The following Minimum Detectable Activities are based upon a background at the indicated value. Background was at or below these levels when the above tests were completed.

Well Counter: Captus 3000

Nuclide	MDA	Background
Cs-137	2.0×10^{-4} uCi	145 counts/1 min
Ba-133	8.8×10^{-5} uCi	204 counts/1 min
Co-57	1.7×10^{-5} uCi	53 counts/1 min

RADIATION SAFETY OFFICER: _____



Survey Meter Evaluation

Licensee: 2050 Leasing Company

Date: 6/8/2017

Manufacturer: Ludlum

Type: EW

Model Number: 14C

Serial Number: 240337

Probe Model: 44-7

Annual Calibration Due: 7/6/2017 **Due for calibration**

Battery check acceptable: YES

Operational check acceptable: YES

current reading: 0.50 mR/hr

Constancy check acceptable: YES

calibration reading: 0.50 mR/hr

Manufacturer: Bicron

Type: GM

Model Number:

Serial Number: Ao34Q

Probe Model: EW

Annual Calibration Due: 01/18/18

Battery check acceptable: YES

Operational check acceptable: YES

current reading: 4.00 mR/hr

Constancy check acceptable: YES

calibration reading: 4.00 mR/hr

Scintillation Camera Evaluation

Licensee: 2050 Leasing Company

Date: 06/08/17

Manufacturer: Philips Adac

Model: Cardio MD

Uniformity Testing: Daily QC

Mode: Intrinsic

Radionuclide: Tc-99m

Counts: 30000K

Results: Acceptable

Uniformity Testing: Weekly QC

Mode:

Radionuclide:

Counts:

Results:

Uniformity Values:

Comments: There are no significant non-uniformities visualized.

Resolution Testing

Mode: Intrinsic

Radionuclide: Tc-99m

Counts: 15000K

Results: Acceptable

Quadrants: 4

Resolution:

Frequency: Weekly

Comments: There are some non-linearities seen on detector two.

SPECT Quality Control

Center of Rotation: Monthly

Uniformity Correction Maps: As Needed

Performance Phantoms: Not Performed

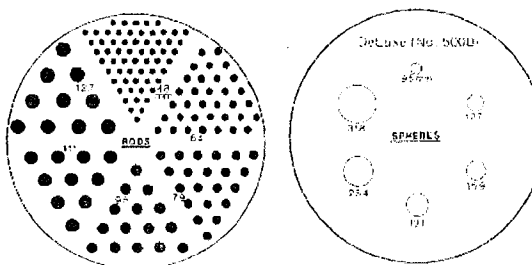
Cold Rods:

Cold Spheres:

Uniformity:

Results:

Comments:



Deluxe Phantom

Disclaimer: This form does not meet the criteria for the annual Nuclear Medicine performance tests as required by the ACR.

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