



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION III  
2443 WARRENVILLE ROAD, SUITE 210  
LISLE, ILLINOIS 60532-4352

**MAY 23 2012**

Sam S. Hancock, Ph.D.  
Radiation Safety Officer  
Southeast Missouri Hospital  
1701 Lacey Street  
Cape Girardeau, MO 63701

Dear Dr. Hancock:

Enclosed is Amendment No. 87 to your NRC Material License No. 24-00128-01 amending your license, in accordance with your request.

Please note that significant changes to your license may appear in **bold font**.

**Please review the enclosed document carefully and be sure that you understand all conditions.** If there are any errors or questions, please notify the U.S. Nuclear Regulatory Commission, Region III office at (630) 829-9887 so that we can provide appropriate corrections and answers.

If you have any questions or require clarification on any of the information stated above, you may contact me directly at (630) 829-9841 or you may reach our administrative support staff at (630) 829-9887. My fax number is (630) 515-1078. My email address is [colleen.casey@nrc.gov](mailto:colleen.casey@nrc.gov).

**In letters dated April 4, 2012, and May 18, 2012, you requested the merger of License No. 24-26563-01 into License No. 24-00128-03, concurrent with the termination of License No. 24-26563-01. The requested termination and merger of licensed activities has been accomplished.**

**In this amendment we addressed the following:**

- 1. We added your new Nucletron microSelectron HDR sealed source and device authorization, limited to an installed activity of 10 curies temporarily. This authorization is also a temporary "bridge" in addition to the authorization for your previous Varian Gammamed HDR authorization.**

**Once the Nucletron unit is successfully installed and the Varian unit is decommissioned and transferred for disposal, it is our understanding that you will request an amendment to delete the Varian HDR source and device authorization.**

**In order to do that, we will need copies of the final leak test on the last Varian source (which may also be the leak test sent with the final source, if less than six**

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months old); an acknowledgment of receipt from the party taking possession of the sealed source; and, if that party is not the vendor of origin, a copy of the recipient's NRC or Agreement State license authorizing receipt of the source.

2. Dr. Brandon Covert has been deleted from the license.
3. The new location of use formerly known as Southeast Cardiac Imaging has been added to the license and Condition 10 has been modified to reflect what is being authorized and used at each location, based upon our current understanding.
4. Your former inventory of cesium-137 sealed sources has been deleted.
5. Your possession limit for palladium-103 has been added.
6. In correspondence dated July 8, 2010, April 18, 2011, and April 24, 2012, you indicated that you wished to release for unrestricted use your former location of use at 1701 Lacey Street, Cape Girardeau, Missouri, limited to those areas of use where the Varian HDR unit and your strontium-90 ophthalmic applicator used to be. Release of these areas may have been "implied" previously but in this amendment we are making it more clear that these areas are released for unrestricted use.

The NRC staff has reviewed your final status surveys consisting of final leak test results. Based on its review, the staff has concluded that all licensable radioactive material has been removed from your former areas of use noted above and residual radioactive material attributable to licensed activities does not exceed current NRC criteria. Based on these conclusions no further remediation or actions with respect to NRC regulated material is required for these areas and they are suitable for unrestricted use.

7. This also refers to the telephone discussion between you and me on May 22, 2012, concerning the HDR program, shielding calculations, diagrams and commitments. Most of the elements of this program need to be resubmitted in accordance with the supplementary guidance document attached to this letter, as per our discussion. Please contact me, as noted above, if you wish to discuss any of these matters further or need clarification.

Further, when preparing the information requested for the HDR program and the installed activity of 12 curies, please address it to my attention at the address above as "additional information to control number 577313" to facilitate proper handling in our offices.

This may be a different control number than you used when submitting responses that became part of this amendment. However, we voided and combined certain related licensing actions from you for the sake of licensing economy and to afford a more timely review. Please use this control number for your response.

We will then continue our review.

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Please address any questions you may have concerning this amendment to me at (630) 829-9841. My fax number is (630) 515-1078. My email address is [Colleen.Casey@nrc.gov](mailto:Colleen.Casey@nrc.gov).

NRC's Regulatory Issue Summary (RIS) 2005-31 provides criteria to identify security-related sensitive information and guidance for handling and marking of such documents. This ensures that potentially sensitive information is not made publicly available through ADAMS, the NRC's electronic document system.

Pursuant to NRC's RIS 2005-31 and in accordance with 10 CFR 2.390, the enclosed license document is exempt from public disclosure because its disclosure to unauthorized individuals could present a security vulnerability.

The RIS may be located on the NRC Web site at: <http://www.nrc.gov/reading-rm/doc-collections/gen-comm/reg-issues/2005/ri200531.pdf> and the link for frequently asked questions regarding protection of security related sensitive information may be located at: <http://www.nrc.gov/reading-rm/sensitive-info/faq.html>.

A copy of this letter will be available electronically for public inspection in the NRC Public Document Room or from the NRC's Agencywide Documents Access and Management System (ADAMS), accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html>.

The NRC's Safety Culture Policy Statement became effective in June 2011.

While a policy statement and not a regulation, it sets forth the agency's *expectations* for individuals and organizations to establish and maintain a positive safety culture.

You can access the policy statement and supporting material that may benefit your organization on NRC's safety culture Web site at:

<http://www.nrc.gov/about-nrc/regulatory/enforcement/safety-culture.html>.

We strongly encourage you to review this material and adapt it to your particular needs in order to develop and maintain a positive safety culture as you engage in NRC-regulated activities.

You will be periodically inspected by NRC. Failure to conduct your program in accordance with NRC regulations, license conditions, and representations made in your license application and supplemental correspondence with NRC will result in enforcement action against you. This could include issuance of a notice of violation, or imposition of a civil penalty, or an order suspending, modifying or revoking your license as specified in the General Statement of Policy and Procedure for NRC Enforcement Actions.

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Since serious consequences to employees and the public can result from failure to comply with NRC requirements, prompt and vigorous enforcement action will be taken when dealing with licensees who do not achieve the necessary meticulous attention to detail and the high standard of compliance which NRC expects of its licensees.

Sincerely,

A handwritten signature in cursive script that reads "Colleen Carol Casey".

Colleen Carol Casey  
Materials Licensing Branch

License No. 24-00128-01  
Docket No. 030-02264

Enclosures:

1. Amendment No. 87
2. HDR licensing guidance supplement