

~~Official Use Only - Security-Related Information~~

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

NOV 13 2011



David J. Keys, Ph.D.
Radiation Safety Officer
Midwest Brachytherapy Services, Inc.
17295 Chesterfield Road
Chesterfield, MO 63005
Indianapolis, IN 46227

Dear Dr. Keys:

Enclosed is Amendment No. 07 to your NRC Material License No. 24-32280-01 in accordance with your request. Please note that the changes made to your license are printed in **bold font**.

This amendment incorporates most of the changes mentioned in your letter dated August 12, 2011, with one exception noted below.

Please note that I excluded reference to your request in item 2 of your letter to be authorized for 12 curies as a sealed source because the sealed source models authorized by your license are not permitted to be used for patient treatment at activities greater than 10 curies. Please see the listing of HDR sources that are approved for patient treatment at activities greater than 10 curies on our public website for the medical licensing toolkit at:

<http://pbadupws.nrc.gov/docs/ML1000/ML100040301.pdf>

A copy of this page is attached to this letter for your convenience.

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 questions concerning this issue please contact me at (630) 829-9841 or (800) 829-9500, ext. 9841. My fax number is (630) 515-1078.

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.

~~Official Use Only - Security-Related Information~~

The enclosed document contains sensitive security-related information.
When separated from this cover letter this letter is uncontrolled.

D. Keys

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 Publicly Available Records (PARS) component of NRC's document system (ADAMS). The NRC's document system is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

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. 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,



Colleen Carol Casey
Materials Licensing Branch

License No. 24-32280-01
Docket No. 030-35581

Enclosures:

1. Amendment No. 07
2. List of HDR sources
Authorized for patient
Treatment containing
More than 10 curies

High Dose-Rate Remote Afterloader Brachytherapy Devices Approved for Patient Treatment Using Sources Exceeding 10 Curies

The purpose of this document is to provide a list of high dose-rate (HDR) remote afterloader brachytherapy devices that are FDA-approved for patient treatment using sources exceeding 10 curies (Ci). The NRC will not approve the use of HDR remote afterloaders for patient treatments using sources above 10 Ci if not listed below.

The following HDR remote afterloaders are approved for patient treatment using source activities up to 11 Ci:

- *Varian VariSource 200 (serial numbers beginning with 200 – 450)*
- *Varian VariSource iX (serial numbers beginning with >500)*

The following HDR remote afterloaders are approved for patient treatment using source activities up to 12 Ci:

- *Nucletron MicroSelectron V2 (105.999)*
- *Nucletron MicroSelectron V3 (106.990)*