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

MAY 30 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. 06 to your NRC Material License No. 24-32280-01-01 in accordance with your request. This amendment renews your license for a ten year term and it will not expire until May 31, 2021. 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 November 12, 2010 and your application dated November 16, 2010. Although you did not explicitly direct us to delete authorization for Mark Pohlman, I deleted him anyhow, since your application was silent on whether to continue his authorization.

Note that the authorizations in Subitem Nos. 6 through 9 A and B have been changed slightly to match the authorizations in our Sealed Source and Device Registry (SSDR). I checked and it appeared that the authorizations on Amendment No. 05 were incorrect (sealed source model numbers matching with devices and appropriate names of vendors and model numbers). Your authorizations are now more correct.

Please note that I excluded references to the RSO's designee procuring sealed sources from your application dated November 16, 2010, in Condition No. 10. I also excluded references to your request to be authorized for 12 curies in each sealed source because, in order to do that, you could become subject to the increased controls security provisions by exceeding the authorized activity threshold for iridium-192. Please contact me if you wish to discuss this item further for a possible future amendment.

I also changed the storage location in Condition 10, in accordance with your request in the application and I added a new Condition No. 19, addressing "Occupational Dose" because your application was silent about this radiation safety program element.

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.

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

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D. Keys

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.

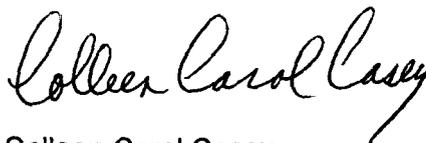
Pursuant to NRC's RIS 2005-31 and in accordance with 10 CFR 2.390, the enclosed license document is exempt from public disclosure because its disclosure to unauthorized individuals could present a security vulnerability.

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

Enclosure:

Amendment No. 06

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