



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

AUG 10 2007

Sidney D. Machefsky, M.D.
Radiation Safety Officer
St. Joseph Health Center
300 First Capitol Drive
St. Charles, MO 63301

Dear Dr. Machefsky:

Enclosed is Amendment No. 54 to your NRC Material License No. 24-15159-01 in accordance with your request. Please note that the changes made to your license are printed 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.

In preparing this amendment I noted that your license still contains authorization for intravascular (IVBT) brachytherapy, which, to my understanding, is a technology no longer supported by any vendor and essentially obsolete. Please consider whether it would be to your advantage to delete this authorization from your license at this time.

In order to delete the authorization for IVBT in Subitem Nos. 6. through 9.E. please submit the information below in a future amendment request.

1. **Please submit a copy of acknowledgments of receipt from the appropriate vendors who took possession of your final sources and devices for strontium-90 in the Novoste Model A1000 series intravascular brachytherapy system. The acknowledgments of receipt must show that the vendors received your last active sources and devices and were appropriately licensed to take possession of these sources/device.**

10 CFR 30.41 and 30.51 require this information and we must review it before we can amend your license to remove the strontium-90 in the Novoste Model A1000 series intravascular brachytherapy system authority from your license. Your vendors should have sent this information to you automatically when you returned the last sources/device.

2. **Please also provide copies of the most recent leak tests for each of the last sealed sources you possessed for the strontium-90 in the Novoste Model A1000 series intravascular brachytherapy system.**

At this time I added a new Condition No. 18, which effectively limits your possession of iodine-131 in 10 CFR 35.300 to quantities below the limits specified in 10 CFR 30.72 which require consideration of the need for an emergency plan for responding to a release of licensed material.

In your next amendment please specify a possession limit for iodine-131 in 10 CFR 35.300 that will enable us to remove this Condition. Your possession limit must be less than ten curies, be realistic for your needs and include waste stream activities as well. Many

licensees typically request one curie (or less) for this purpose.

If you have any questions concerning this amendment please contact me at either (630) 829-9841 or (800) 522-3025.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter and its enclosure 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,

A handwritten signature in black ink, appearing to read "Colleen Carol Casey".

Colleen Carol Casey
Materials Licensing Branch

License No. 24-15159-01
Docket No. 030-08664

Enclosure:

Amendment No. 54