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

DEC 1 6 2008

John Snider
Radiation Safety Officer
Mallinckrodt, Inc.
Imaging Research and Development
Development Operations-Medical
675 McDonnell Blvd.
Hazelwood, MO 63042

Dear Mr. Snider:

Enclosed is Amendment No.27 to your NRC Material License No. 24-17450-01 in accordance with your request dated November 5, 2008. 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. NuclearRegulatory Commission, Region III office at (630) 829-9887 so that we can provide appropriate corrections and answers.

Please note that in accordance with our telephone conversation on December 10, 2008, Item 7.N. of your license was modified to any chemical and physical form.

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.

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. TheRIS 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

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

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).

Sincerely,

James R. Mullauer, M.H.S.
Health Physicist
Materials Licensing Branch

License No. 24-17450-01
Docket No. 030-12559

Enclosure: Amendment No. 27