



UNITED STATES
NUCLEAR REGULATORY COMMISSION

REGION III
2443 WARRENVILLE RD. SUITE 210
LISLE, IL 60532-4352

MAR 18 2014

John Snider
Radiation Safety Officer
Mallinckrodt, LLC
Imaging Research and Development
675 McDonnell Blvd.
Hazelwood, Missouri 63042

Dear Mr. Snider:

Enclosed is Amendment No. 32 to your NRC Material License No. 24-17450-01 in accordance with your request. Note that 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 may provide appropriate corrections and answers.

We have noted that the submitted information and enclosed amendment included a new authorization for byproduct material with a half-life greater than 120 days. It also removed Condition No. 18, as listed on the previous amendment to the above referenced license, which required you to "restrict possession of unsealed licensed material or readily dispersible source material to quantities less than 10^4 times the applicable limits in Appendix B of [Title 10 of the *Code of Federal Regulations* Section 30.35(d)]."

The changes reflected in the attached license amendment may be associated with an increased decommissioning financial assurance (DFA) funding requirement, pursuant to 10 CFR 30.35(b). We have received an increased DFA submission from you, for the above referenced license, as an amendment to your irrevocable standby letter of credit (LOC) dated January 8, 2014. It is our understanding that this 2014 LOC, together with the September 23, 2013, Decommissioning Funding Plan (DFP) enclosed with your January 13, 2014, amendment request, was intended to cover the expanded authorizations included in the attached amendment. If this is not correct, please contact me at (630) 829-9892 or my colleague, Kevin Null at (630) 829-9854 so that we may discuss additional DFA that may be needed.

Our review of the referenced 2014 LOC and 2013 DFP is ongoing under Mail Control No. (C/N) 300393, separate from our processing of this amendment. Therefore, we may request additional information from you regarding your previously submitted DFA. **Please refer to NUREG 1757, "Consolidated Decommissioning Guidance," Volume 3, Revision 1 (September 2006), when preparing and submitting updated DFA information to the NRC. Reference C/N 300393 when submitting additional DFA information to our office.**

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

J. Snider

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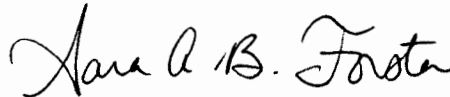
You will be periodically inspected by NRC. Failure to conduct your program in accordance with NRC regulations, license conditions, and representations made in your license application and supplemental correspondence with NRC will result in enforcement action against you. This could include issuance of 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.

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.

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>.

Sincerely,



Sara A.B. Forster, M.S.
Health Physicist
Materials Licensing Branch

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

Enclosure: Amendment No. 32