



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION III  
2443 WARRENVILLE RD. SUITE 210  
LISLE, IL 60532-4352

June 2, 2021

Samuel S. Hancock, Ph.D.  
Radiation Safety Officer  
Southeast Missouri Hospital  
1701 Lacey St.  
Cape Girardeau, MO 63701

Dear Dr. Hancock:

Enclosed is Amendment No. 108 to your U.S. Nuclear Regulatory Commission (NRC) Material License No. 24-00128-03 for Southeast Missouri Hospital in accordance with your request dated March 18, 2021. Please review the enclosed document carefully and be sure that you understand all conditions. If there are any errors or questions, please notify the NRC Region III office at (630) 829-9887 so that we may provide appropriate corrections and answers.

In your letter dated April 22, 2021, you requested removal of the gadolinium-153 sealed sources from your NRC license. In your letter dated May 24, 2021, you provided additional information regarding the disposal of the sources. Based on our review of the additional information pertaining to your method of disposal of the sources, we identified a potential violation of Title 10 of the *Code of Federal Regulations* (CFR) 35.92. According to your request, you held the gadolinium-153 sealed sources for decay-in-storage and discarded the sources as normal waste on October 16, 2020, contrary to the regulations in 10 CFR 35.92 which allow for decay-in-storage of byproduct material with a physical half-life of less than or equal to 120 days. Gadolinium-153 has a half-life of 240 days.

On June 1, 2021, Mr. Geoffrey Warren, Senior Materials Inspector, discussed the potential violation with you by telephone. The potential violation and its disposition will be documented separately. Please note that we did not remove the gadolinium-153 sealed sources from your NRC license at this time pending disposition of the potential violation.

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. The NRC may issue a notice of violation, 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 enclosed document contains sensitive security-related information.  
When separated from this cover letter this letter is uncontrolled.

S. Hancock

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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: <https://www.nrc.gov/docs/ML1619/ML16196A237.pdf> and the link for frequently asked questions regarding protection of security related sensitive information may be located at: <https://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 ADAMS, accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html>.

Sincerely,

Magdalena R. Gryglak  
Health Physicist  
Materials Licensing Branch

License No. 24-00128-03  
Docket No. 030-02264

Enclosure: Amendment No. 108