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

JAN 12 2010

Thomas K. Spencer
Radiation Safety Officer
Sigma-Aldrich Company
P.O. Box 14508
St. Louis, MO 63178

Dear Mr. Spencer:

Enclosed is Amendment No.18 to your NRC Material License No.24-16273-01 in accordance with your request. Please note that the major 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 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).

Sincerely,

Toye L. Simmons
Materials Licensing Branch

License No.24-16273-01
Docket No. 030-10716

Enclosure: Amendment No. 18