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

AUG 2 4 2006

Timothy Venverloh
Director EHS - St. Louis
Sigma-Aldrich Corporation
3050 Spruce Street
St. Louis, MO 63103

Dear Mr. Venverloh::

Enclosed are Amendment Nos. 16, 6, and 6 amending NRC Material License Nos. 24-16273-01, 24-16607-02, and 24-16607-03 respectively, in accordance with your request. It is our understanding that Mr. Spencer will be performing the duties of the RSO on a temporary basis until you hire a new RSO to permanently replace Mr. Warner. Please be reminded that once you identify a new, permanent RSO you will need to amend each license again.

Also, you will note that we have updated license number 24-16607-03 to add a leak-test and decay-in-storage license conditions, and number 24-16273-01 to add a leak-test condition.

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.

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.

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,

Kevin G. Null
Materials Licensing Branch

License Nos. 24-16273-01, 24-16607-02, and 24-16607-03
Docket Nos. 030-10706, 030-28732, and 030-28992
Amendment Nos. 16, 6, and 6